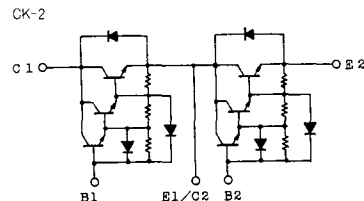
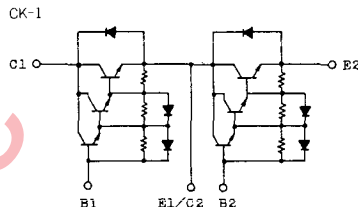


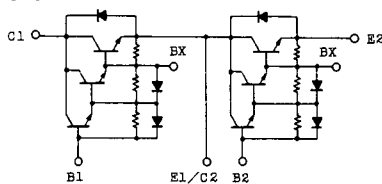
- ### ■ 等值回路



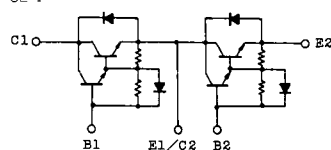
注1. $T_c=25^{\circ}\text{C}$ 。 注2. AC, 1分間。

型 名	最 大 定 格 (T _a =25℃)												電 氣 的 特 性									
	V _{CEO}	V _{CEX(SUS)}	V _{EB0}	I _C	I _{CP}	I _B	I _F	I _{FM}	P _C	T _J	T _{stg}	V _{iso}	I _{CEO}	I _{EB0}	V _{CE0(SUS)}	h _{FE}						
	(V)	(V)	(V)	(A)	(mA)	(A)	(A)	(mA)	(W)	(℃)	(℃)	(V)	(mA)	V _{CB}	(mA)	V _{EB}	(V)	I _C	最小	V _{CE}	I _C	
										(注1)			(注2)	最大	(V)	最大	(V)	最小	(A)		(V)	(A)
MG15N2CK1	1100	1100	7	15	30	1.5	15	30	150	150	-40~125	2500	1.0	1100	200	7	900	1.0	100	5	15	
MG15N2YK1	1100	1100	7	15	30	1.5	15	30	150	150	-40~125	2500	1.0	1100	200	7	900	1.0	100	5	15	
MG25M2CK2	1000	1000	7	25	50	2.5	25	50	300	150	-40~125	2500	1.0	1000	200	7	880	1.0	100	5	25	
MG25M2YK1	1000	1000	7	25	50	2.5	25	50	300	150	-40~125	2500	1.0	1000	200	7	880	1.0	100	5	25	
MG25M2YK9	1000	1000	7	25	50	2.5	25	50	300	150	-40~125	2500	1.0	1000	200	7	880	1.0	100	5	25	
MG25N2CK1	1100	1100	7	25	50	2.5	25	50	300	150	-40~125	2500	1.0	1100	200	7	900	0.5	100	5	25	
MG25N2YK1	1100	1100	7	25	50	2.5	25	50	300	150	-40~125	2500	1.0	1100	200	7	900	0.5	100	5	25	
MG30G2CL3	600	600	6	30	60	3.0	30	60	250	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	30	
MG30G2YL1	600	600	6	30	60	3.0	30	60	200	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	30	
MG40S2YK1	1400	1400	7	40	80	4.0	40	80	400	150	-40~125	2500	2.0	1400	150	7	1000	1.0	100	5	40	
MG50G2CL3	600	600	6	50	100	5.0	50	100	300	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	50	
MG50G2YL1A	600	600	6	50	100	5.0	50	100	300	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	50	
MG50M2CK2	1000	1000	7	50	100	5.0	50	100	350	150	-40~125	2500	1.0	1000	200	7	880	1.0	100	5	50	
MG50M2YK1	1000	1000	7	50	100	5.0	50	100	350	150	-40~125	2500	1.0	1000	200	7	880	1.0	100	5	50	
MG50M2YK9	1000	1000	7	50	100	5.0	50	100	350	150	-40~125	2500	1.0	1000	200	7	880	1.0	100	5	50	
MG50N2CK1	1100	1100	7	50	100	5.0	50	100	350	150	-40~125	2500	1.0	1100	200	7	900	1.0	100	5	50	
MG50Q2YK1	1200	1200	7	50	100	5.0	50	100	350	150	-40~125	2500	1.0	1200	200	7	900	1.0	100	5	50	
MG75G2CL1	600	600	6	75	150	10	75	150	350	150	-40~125	2500	1.0	600	200	6	450	0.5	80	5	75	
MG75G2YL1A	600	600	6	75	150	10	75	150	350	150	-40~125	2500	1.0	600	200	6	450	0.5	80	5	75	
MG75H2CL1	600	600	6	75	150	10	75	150	350	150	-40~125	2500	1.0	600	200	6	500	0.5	80	5	75	
MG75H2YL1A	600	600	6	75	150	10	75	150	350	150	-40~125	2500	1.0	600	200	6	500	0.5	80	5	75	

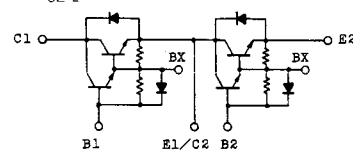
CK-3



CL-1



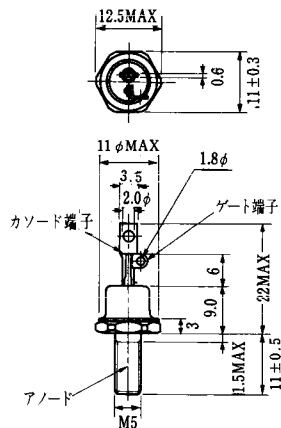
CL-2



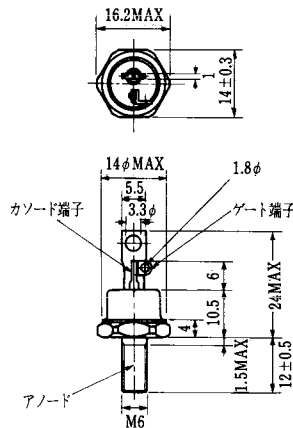
注3. スイッチング時間の * 印はtyp. 値。

(T _a = 25°C)											エミッタ・コレクタ間ダイオード							熱抵抗		等 価 回 路	外形図	記 事	型 名
飽和電圧 (V)		I _C (A)	I _B (A)	スイッチング時間 (μs)			I _{B1} (A)	I _{B2} (A)	V _{CC} (V)	R _L (Ω)	V _F (V)	I _F (A)	t _{rr} (μs)	I _F (A)	V _{BE} (V)	di/dt (A/μs)	R _{th(j-c)} (°C/W)						
V _{CE}	V _{BE}			t _{on}	t _{off}	t _r											トランジスタ部	ダイオード部					
最大	最大	(A)	(A)	最大	最大	最大	(A)	(A)	(V)	(Ω)	最大	(A)	最大	(A)	(V)	(A/μs)	最大	最大					
2.5	3.5	15	0.3	2	11	6	0.3	-0.9	600	40	1.5	15	1.0	15	-3	60	0.83	1.3	CK-2	2-68B2A		MG15N2CK1	
2.5	3.5	15	0.3	2	11	6	0.3	-0.9	600	40	1.5	15	1.0	15	-3	60	0.83	1.3	YK-1	2-94C3A		MG15N2YK1	
2.5	3.5	25	0.5	2	15	5	0.5	-0.5	600	24	1.7	25	1.0	25	-3	100	0.41	1.3	CK-2	2-68B2A		MG25N2CK2	
2.5	3.5	25	0.5	2	15	5	0.5	-0.5	600	24	1.7	25	1.0	25	-3	100	0.41	1.3	YK-1	2-94C3A		MG25N2YK1	
2.5	3.5	25	0.5	2	15	5	0.5	-0.5	600	24	1.7	25	1.0	25	-3	100	0.41	1.3	YK-1	2-94D1A		MG25N2YK9	
2.5	3.5	25	0.5	2	14	6	0.5	-1.5	600	24	1.7	25	1.0	25	-3	100	0.41	1.3	CK-2	2-68B2A		MG25N2CK1	
2.5	3.5	25	0.5	2	14	6	0.5	-1.5	600	24	1.7	25	1.0	25	-3	100	0.41	1.3	YK-1	2-94C3A		MG25N2YK1	
2.0	2.5	30	0.6	1	12	2	0.6	-0.6	300	10	1.5	30	1.0	30	-3	100	0.5	1.8	CL-1	2-68A2A		MG30G2CL3	
2.0	2.5	30	1.0	1	12	3	0.6	-0.6	300	10	1.6	30	1.0	30	-2	60	0.625	1.8	YL-1	2-94C3A		MG30G2YL1	
2.5	3.5	40	0.8	2	17	3	0.8	-2.4	600	15	1.8	40	1.2	40	-3	100	0.31	1.3	YK-1	2-108A2A		MG40S2YK1	
2.0	2.5	50	1.0	1	12	2	1.0	-1.0	300	6	1.5	50	1.0	50	-3	100	0.41	1.3	CL-1	2-68A2A		MG50G2CL3	
2.0	2.5	50	1.0	1	12	2	1.0	-1.0	300	6	1.7	50	1.0	50	-3	100	0.41	1.3	YL-1	2-94C3A		MG50G2YL1A	
2.5	3.5	50	1.0	2	15	5	1.0	-1.0	600	12	1.7	50	1.0	50	-3	100	0.36	1.3	CK-2	2-68B2A		MG50M2CK2	
2.5	3.5	50	1.0	2	15	5	1.0	-1.0	600	12	1.7	50	1.0	50	-3	100	0.36	1.3	YK-1	2-94C3A		MG50M2YK1	
2.5	3.5	50	1.0	2	15	5	1.0	-1.0	600	12	1.7	50	1.0	50	-3	100	0.36	1.3	YK-1	2-94D1A		MG50M2YK9	
2.5	3.5	50	1.0	2	15	5	1.0	-3.0	600	12	1.8	50	2.0	50	-3	100	0.35	1.3	CK-2	2-68B2A		MG50N2CK1	
2.5	3.2	50	1.0	2	13	4	1.0	-3.0	600	12	1.8	50	1.0	50	-3	100	0.35	1.3	YK-1	2-94C3A		MG50N2YK1	
2.0	2.5	75	1.5	2	12	2	1.5	-1.5	300	4	1.5	75	2.0	75	-3	100	0.35	1.3	CL-1	2-68A2A		MG75G2CL1	
2.0	2.5	75	1.5	2	12	2	1.5	-1.5	300	4	1.7	75	1.0	75	-3	100	0.36	1.3	YL-1	2-94C3A		MG75G2YL1A	
2.0	2.5	75	2.0	2	12	4	2.0	-2.0	300	4	1.5	75	2.0	75	-3	100	0.35	1.3	CL-1	2-68A2A		MG75H2CL1	
2.0	2.5	75	2.0	2	12	4	2.0	-2.0	300	4	1.7	75	1.0	75	-3	100	0.35	1.3	YL-1	2-94C3A		MG75H2YL1A	

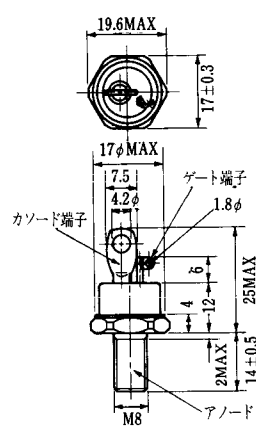
FD-1



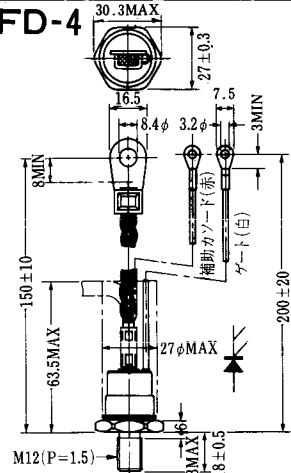
FD-2



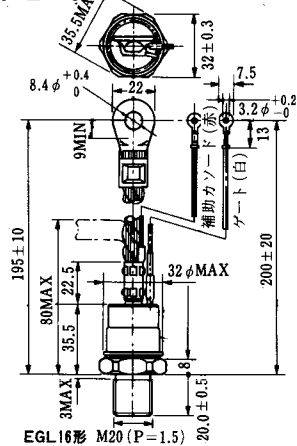
FD-3



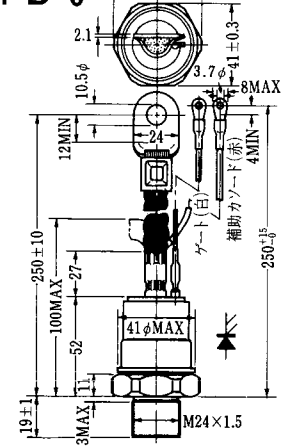
FD-4



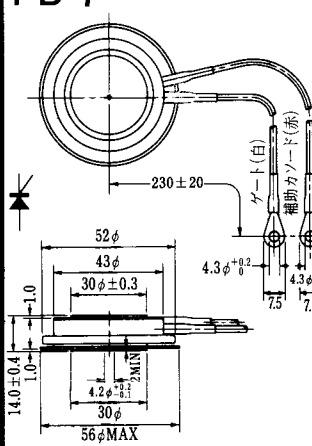
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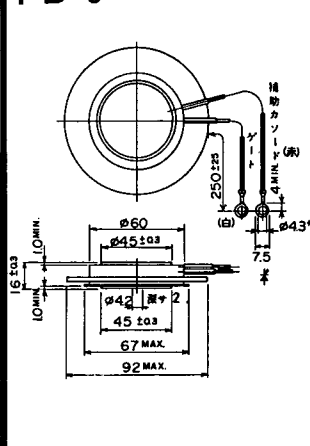
FD-6



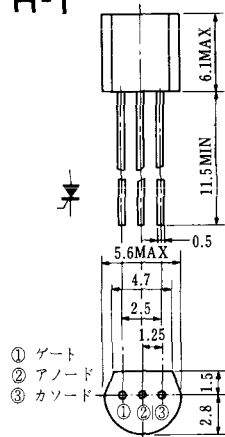
FD-7



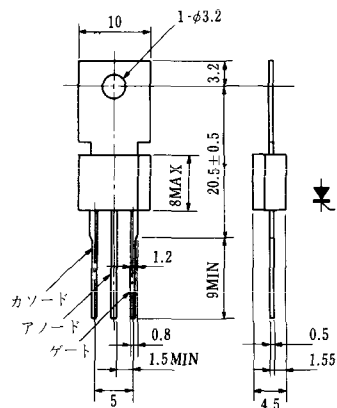
FD-8



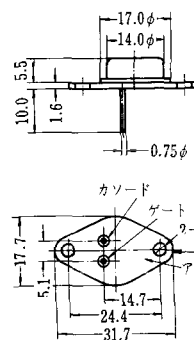
H-1



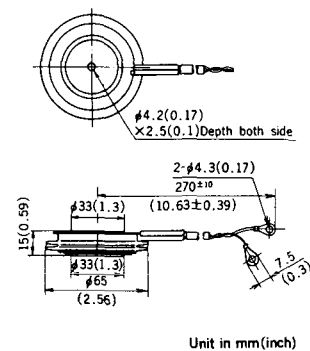
H-2



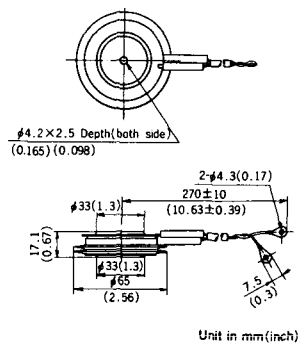
H-3



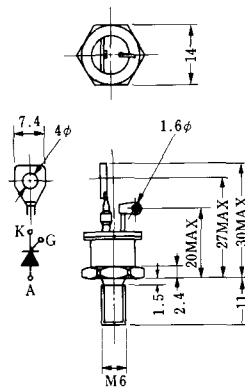
H-4



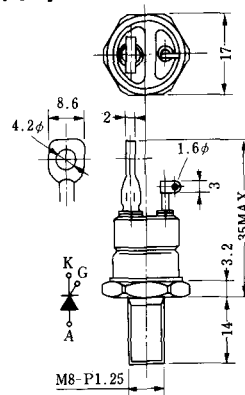
H-5



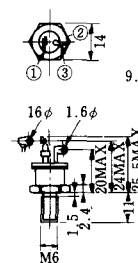
H-6



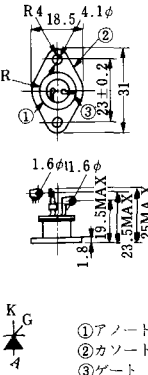
H-7



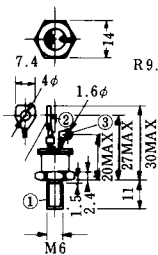
H-8A



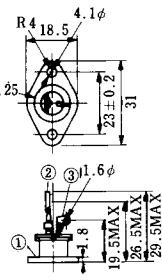
H-8B



H-9A

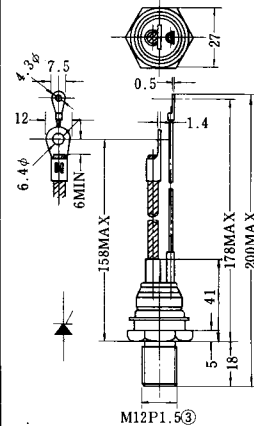


H-9B

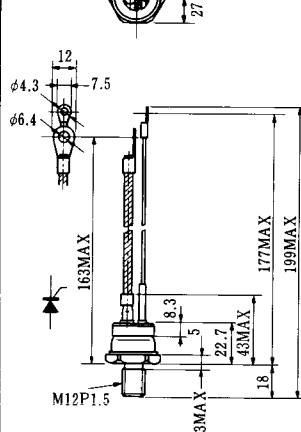


- ① アノード
- ② カソード
- ③ ゲート

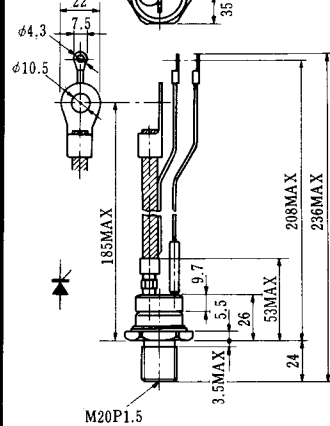
H-10



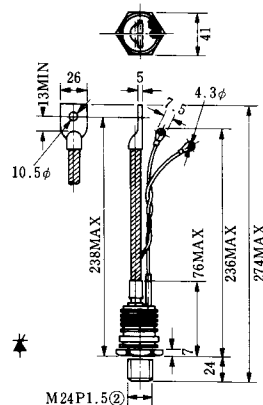
H-11



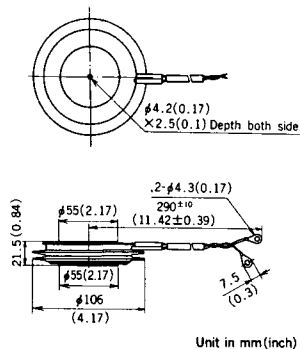
H-12



H-13

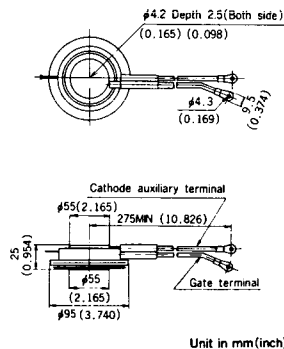


H-14



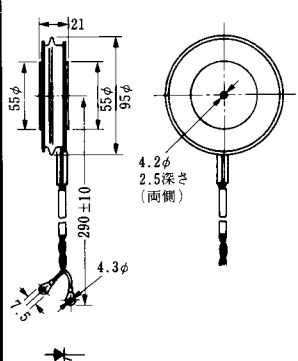
Unit in mm (inch)

H-15



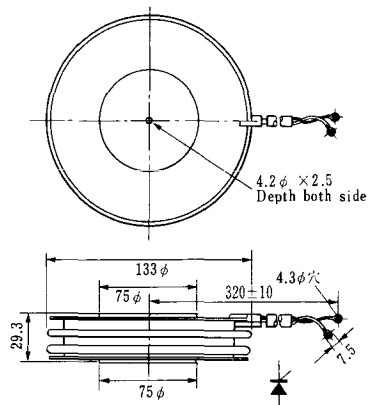
Unit in mm (inch)

H-16

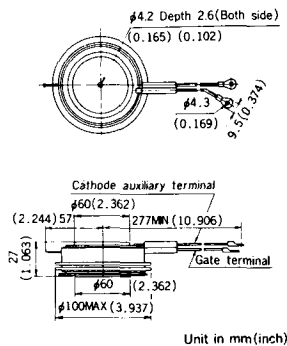


《寸法図単位: mm》

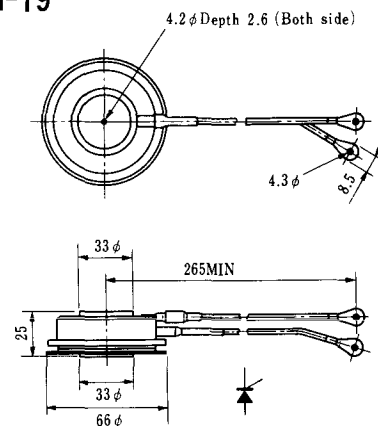
H-17



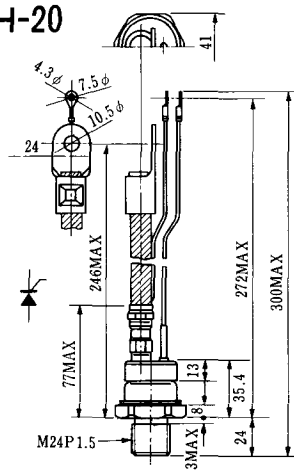
H-18



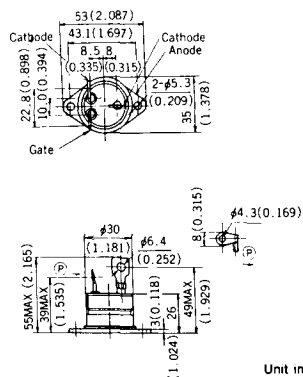
H-19



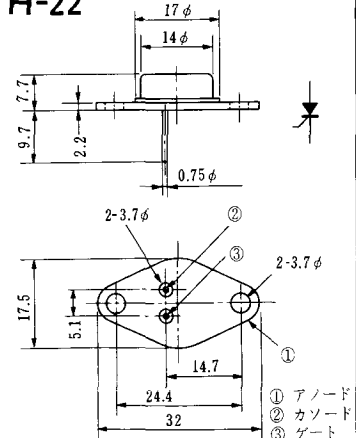
H-20



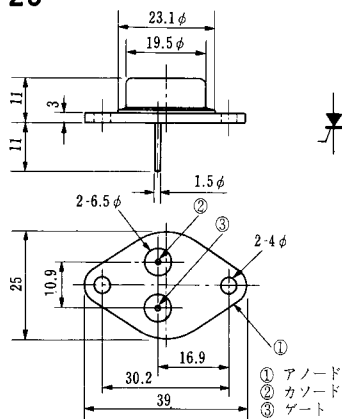
H-21



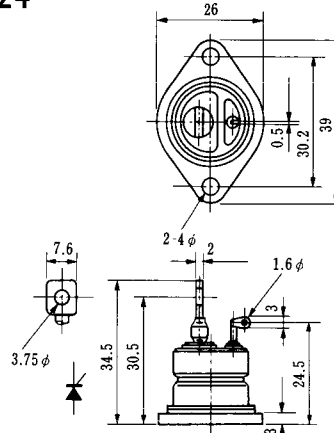
H-22



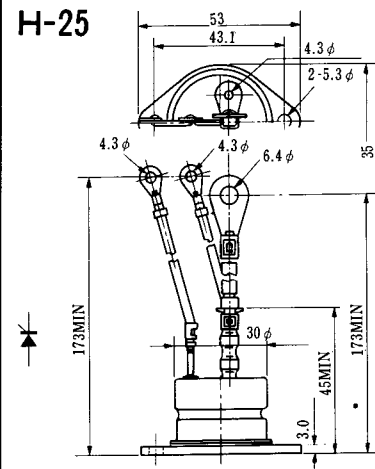
H-23



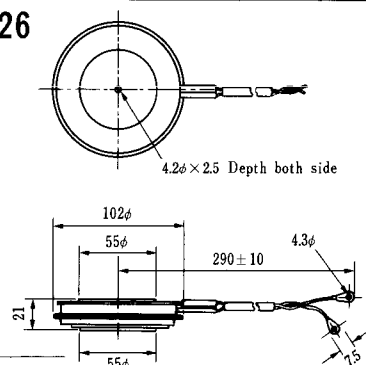
H-24



H-25

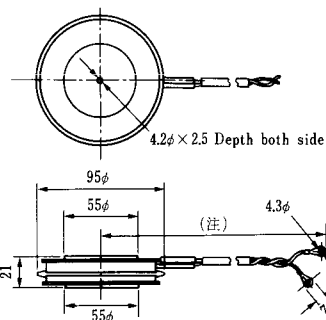


H-26



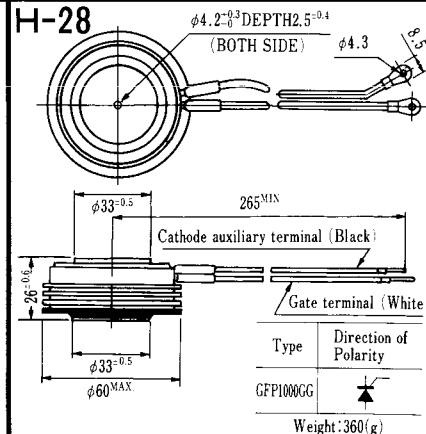
Type	Direction of polarity
CA12	

H-27



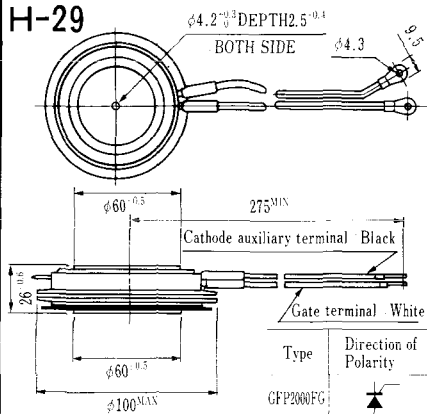
Type	Direction of polarity
CF11V	

H-28



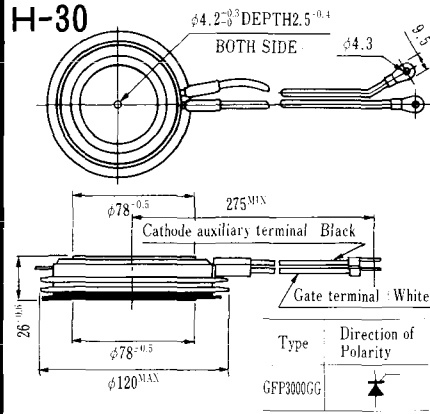
Note: The thickness is a dimension in press at the rated mounting force.

H-29



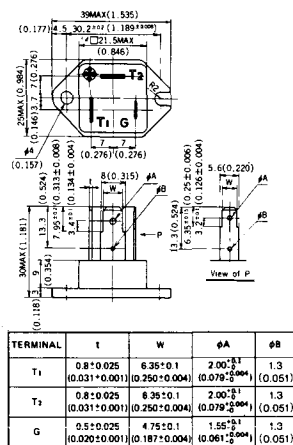
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870 (g)

H-30



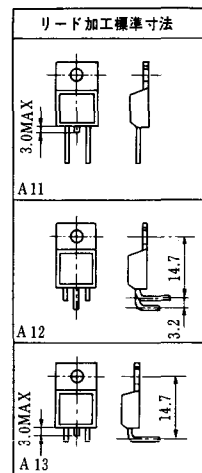
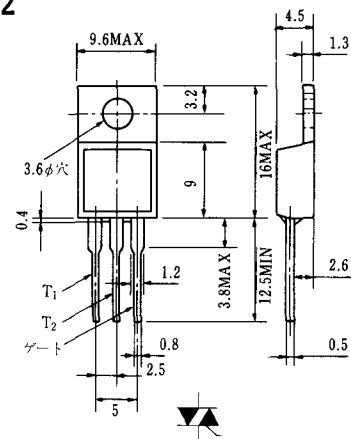
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460 (g)

HT-1

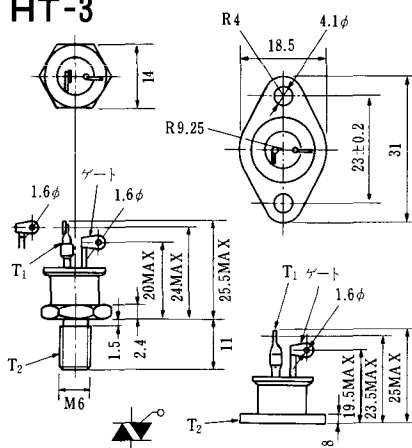


Unit in mm (inch)

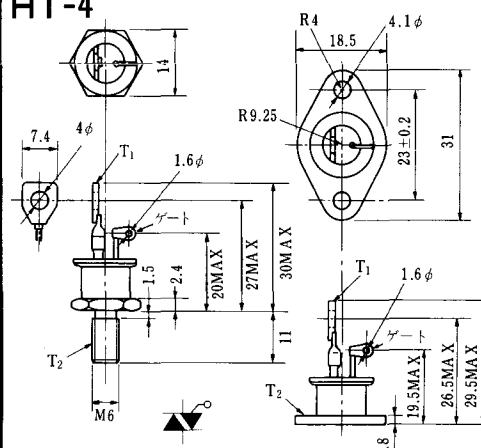
HT-2



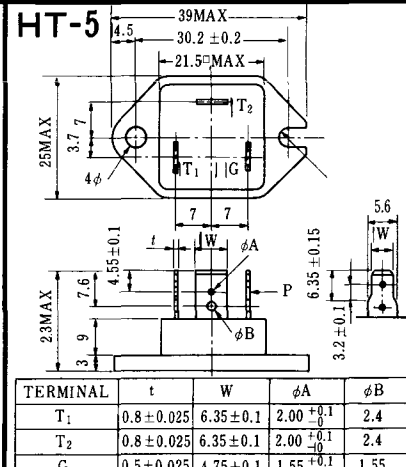
HT-3



HT-4

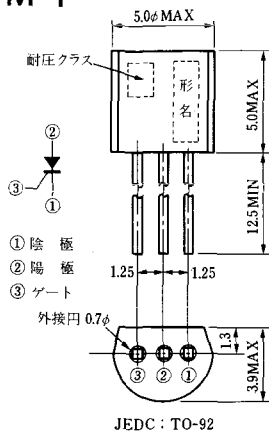


HT-5

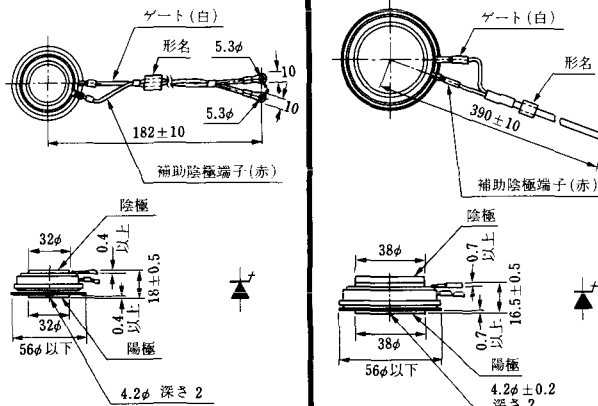


《寸法図単位：mm》

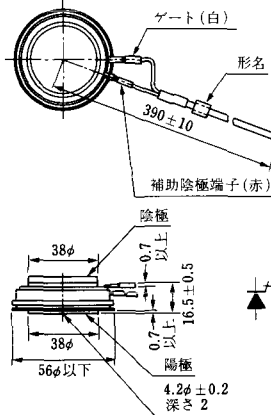
M-1



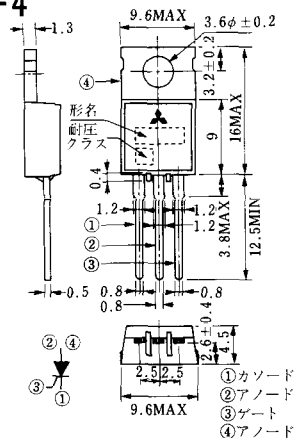
M-2



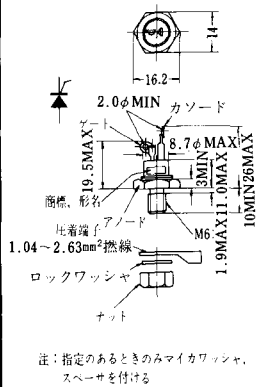
M-3



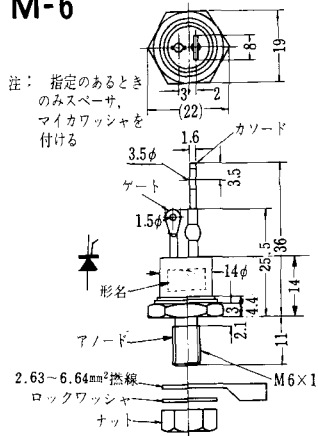
M-4



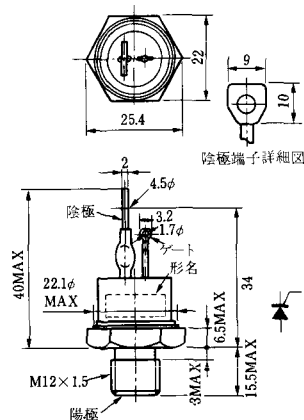
M-5



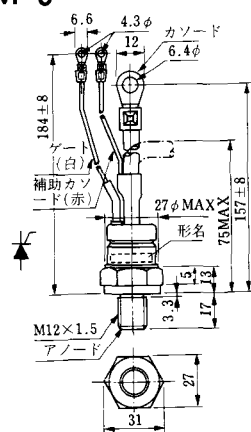
M-6



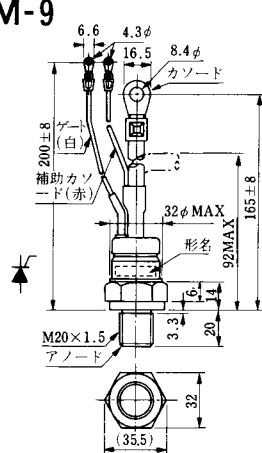
M-7



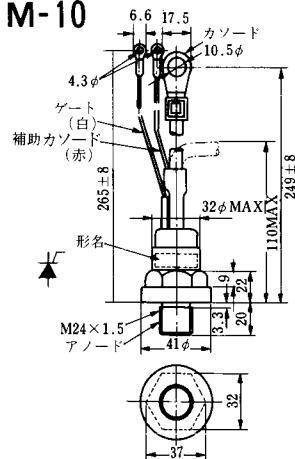
M-8



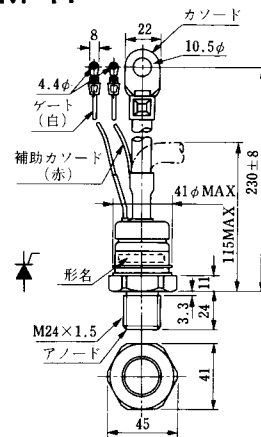
M-9



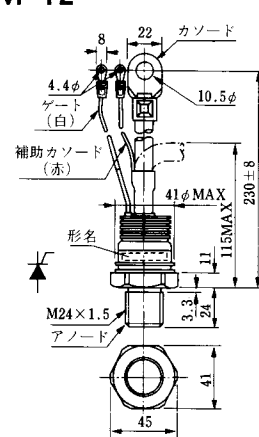
M-10



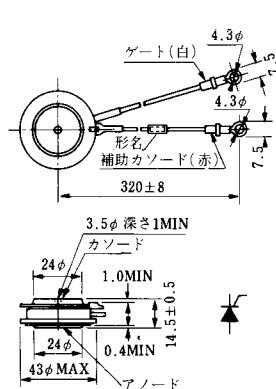
M-11



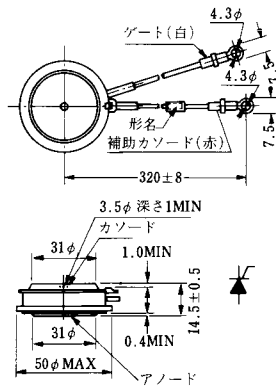
M-12



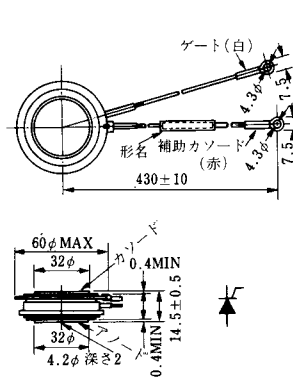
M-13



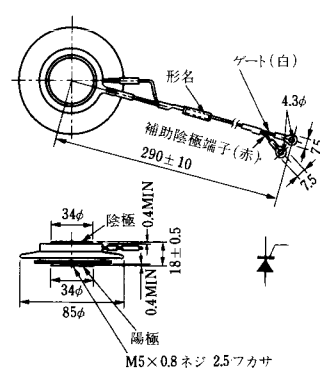
M-14



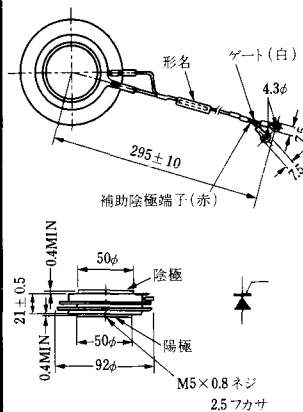
M-15



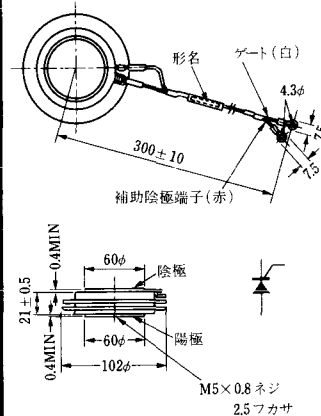
M-16



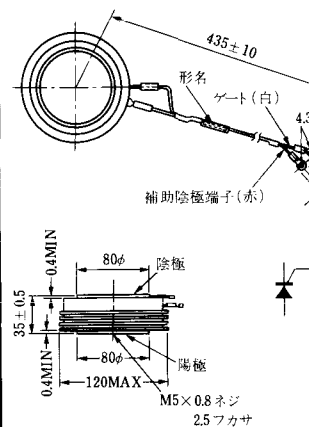
M-17



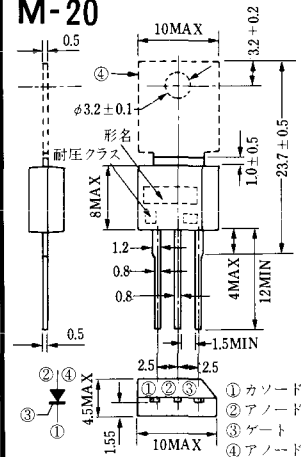
M-18



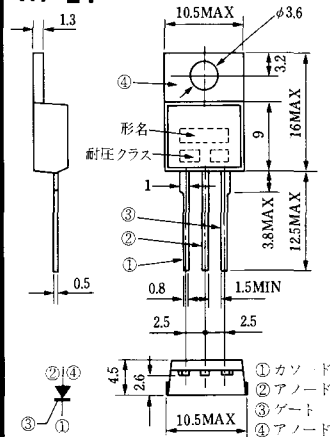
M-19



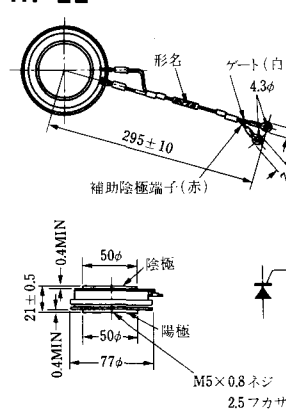
M-20



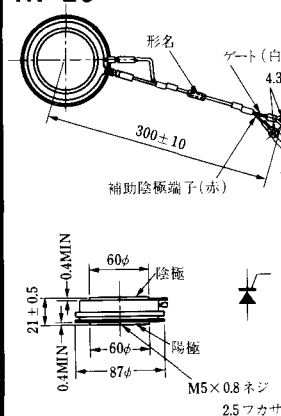
M-21



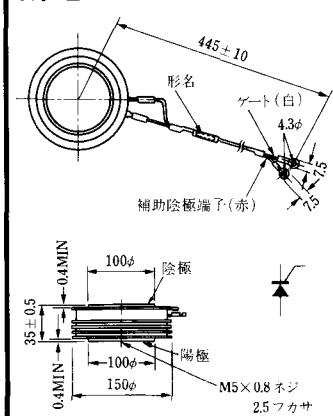
M-22



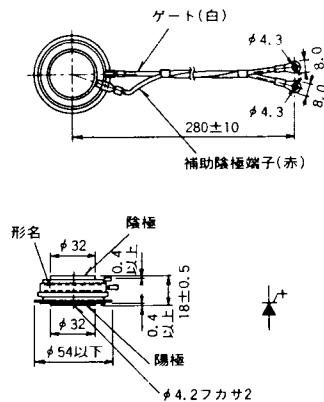
M-23



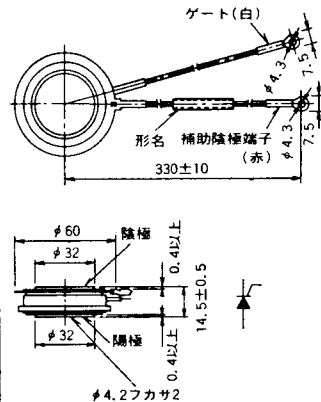
M-24



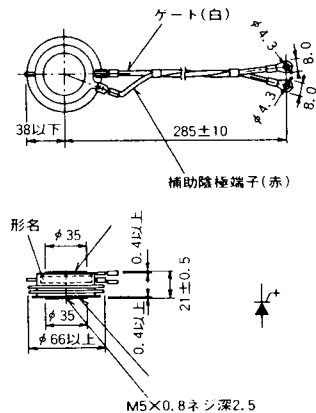
M-25



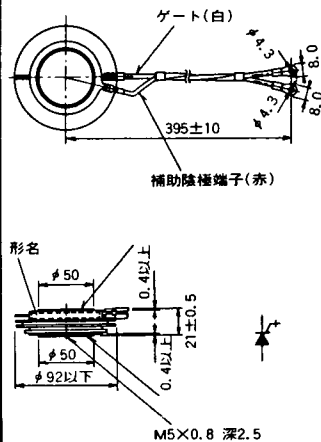
M-26



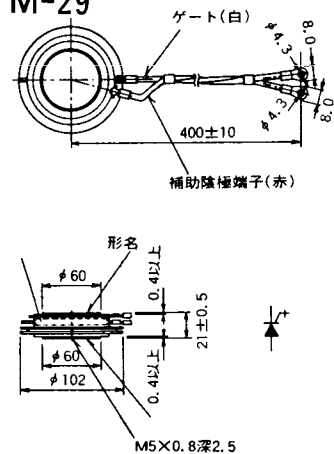
M-27



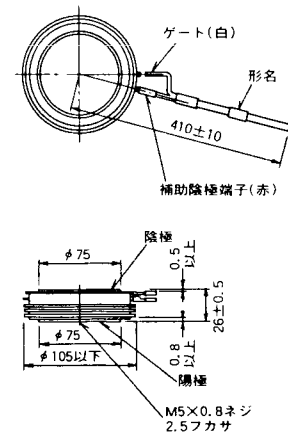
M-28



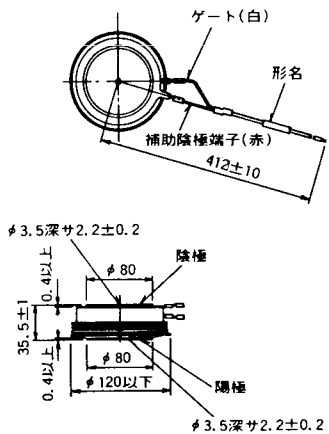
M-29



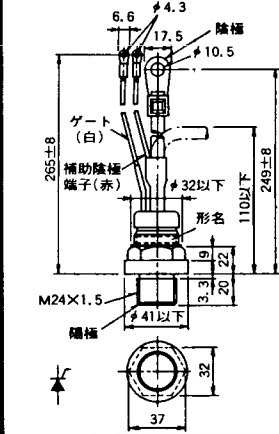
M-30



M-31

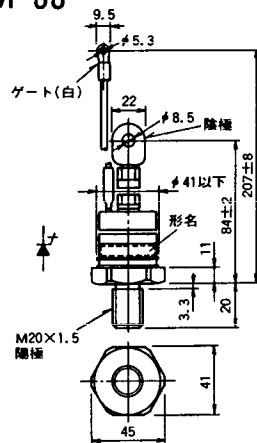


M-32

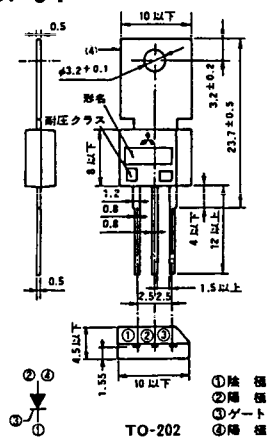


《寸法図単位：mm》

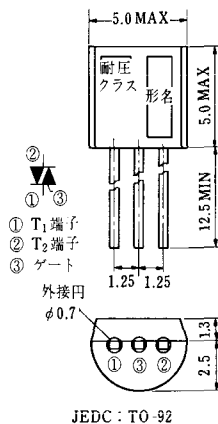
M-33



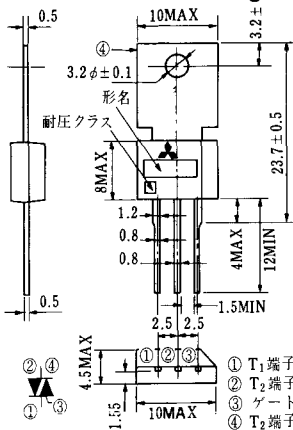
M-34



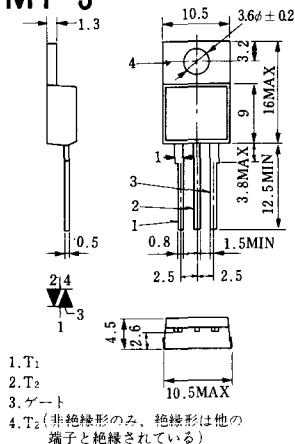
MT-1



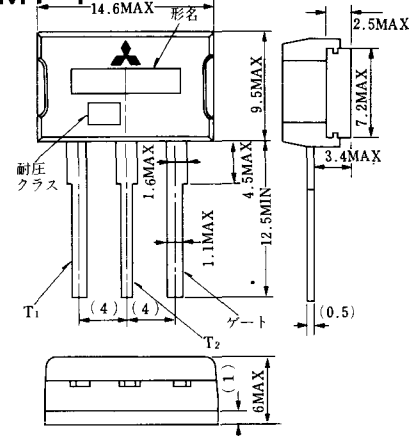
MT-2



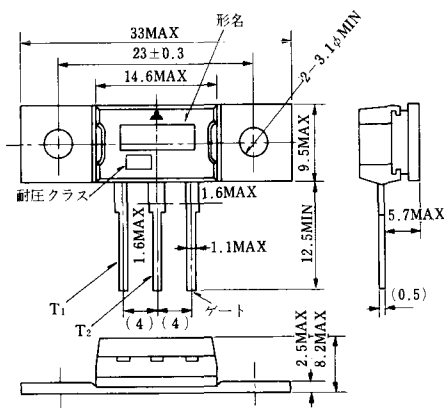
MT-3



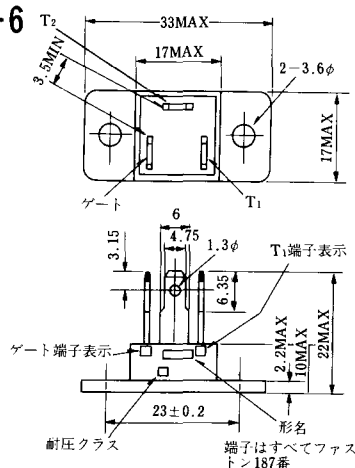
MT-4



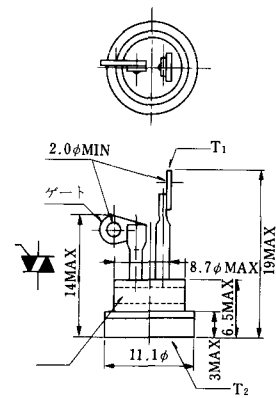
MT-5



MT-6

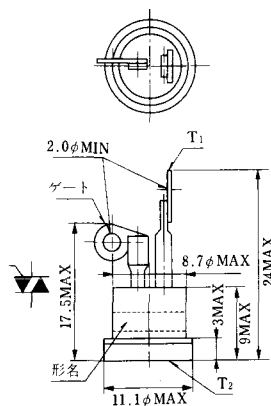


MT-7

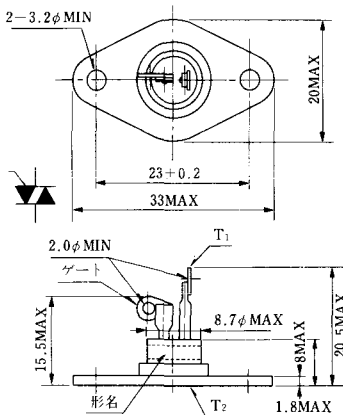


《寸法図単位：mm》

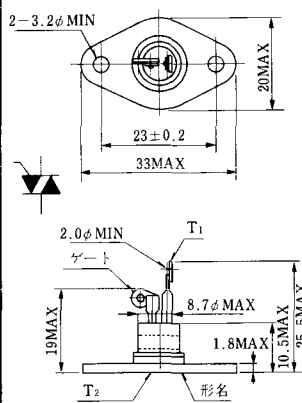
MT-8



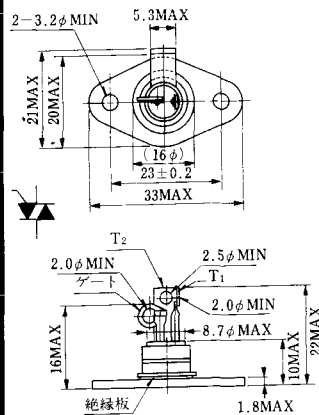
MT-9



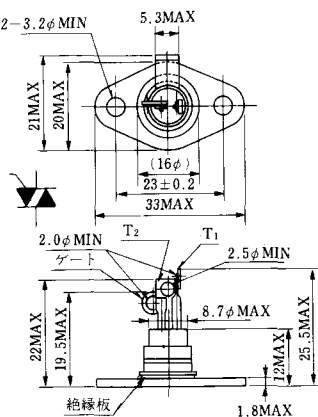
MT-10



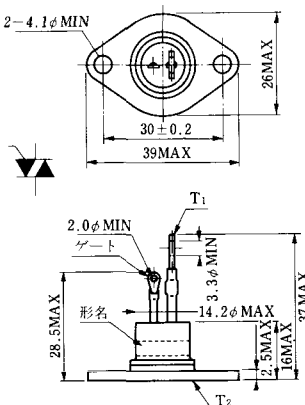
MT-11



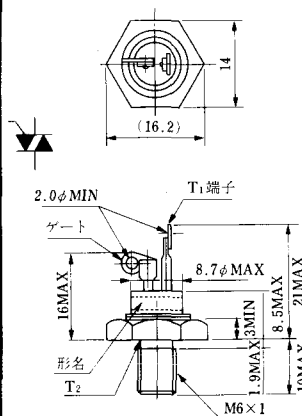
MT-12



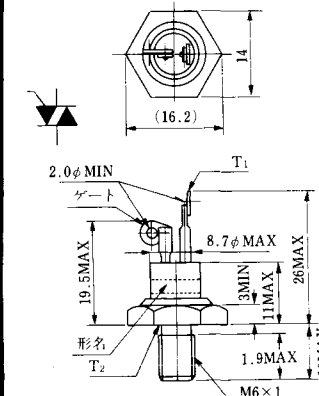
MT-13



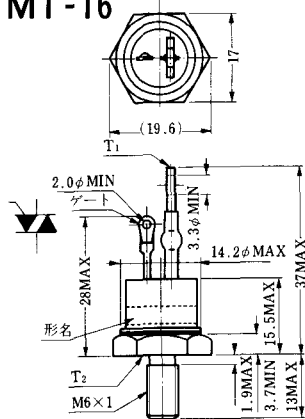
MT-14



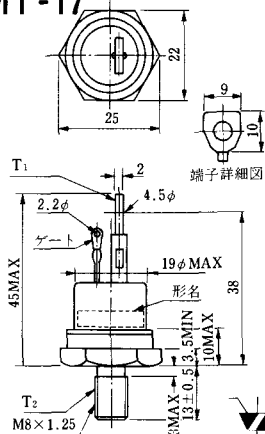
MT-15



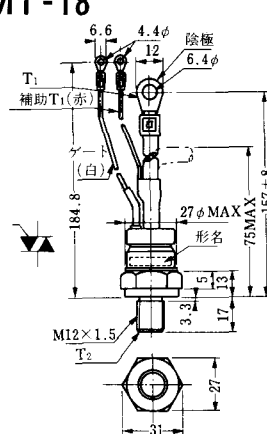
MT-16



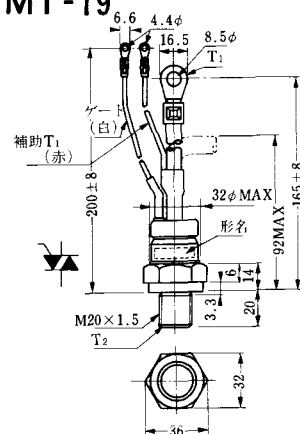
MT-17



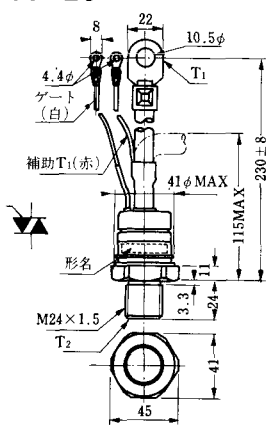
MT-18



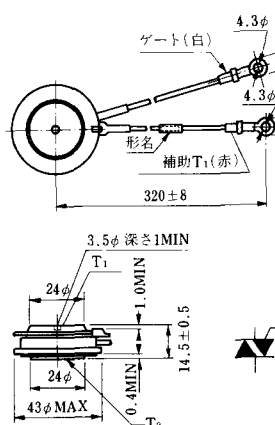
MT-19



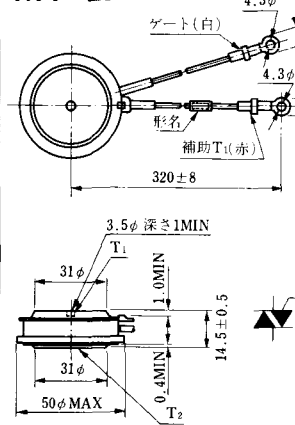
MT-20



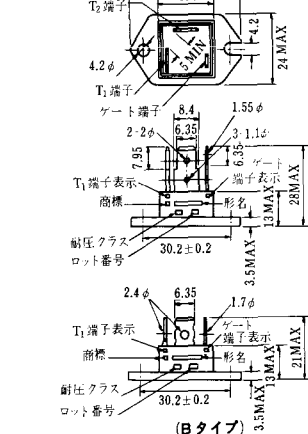
MT-21



MT-22

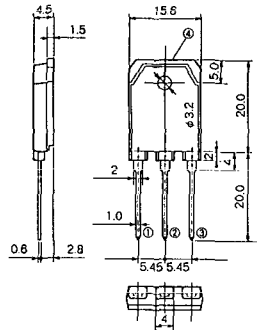


MT-23



《寸法図単位：mm》

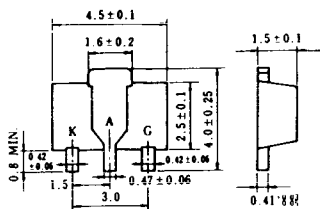
MT-24



TO-3P

- ① T1 端子
- ② T2 端子
- ③ ゲート 端子
- ④ T2 端子

N-9



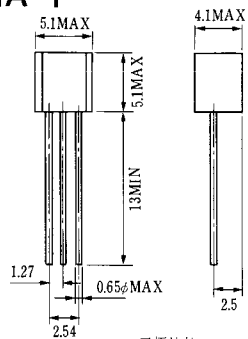
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

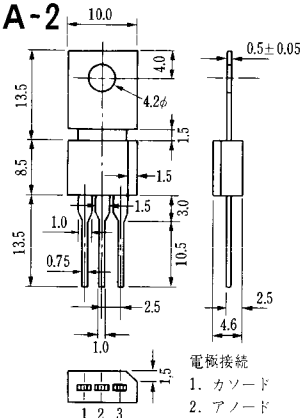


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2

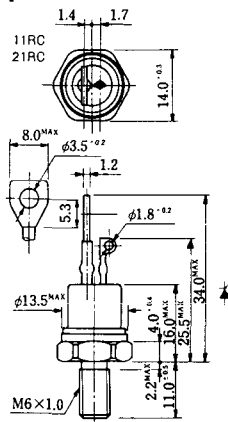


電極接続

1. カソード
2. アノード
3. ゲート

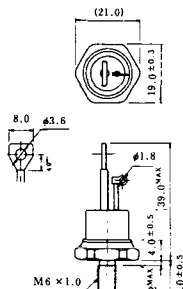
JEDEC: TO-202AA

NI-1



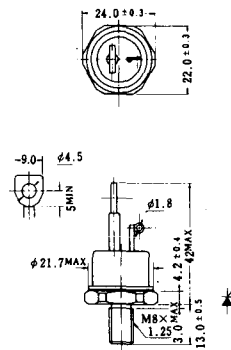
NI-2

29RD



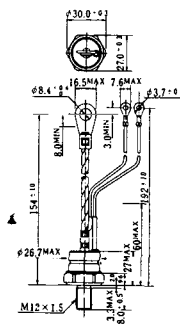
NI-3

39RC
59RC
39RF
59RF



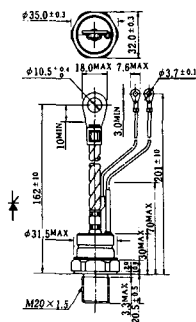
NI-4

68RP, 88RP, 108RP, 68RS,
88RS, 78RT, 88RLD, 88RLE,
88RLF, 88RLG, 88RLH, 108RLE



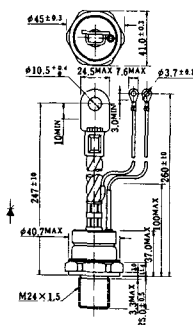
NI-5

158RP, 208RP, 128RS, 178RS,
158RT, 178RLD, 178RLE,
178RLF, 178RLG, 178RLH,
208RLE



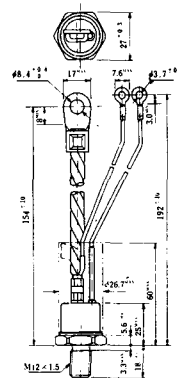
NI-6

308RP, 408RP, 508RP, 278RS,
358RS, 258RT, 258RLD, 258RLG,
258RLH, 308RLE, 308RLF,
358RLE



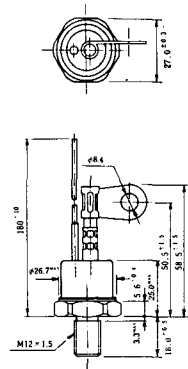
NI-7

89RW $\frac{1}{2}$ L
129RW $\frac{1}{2}$ L



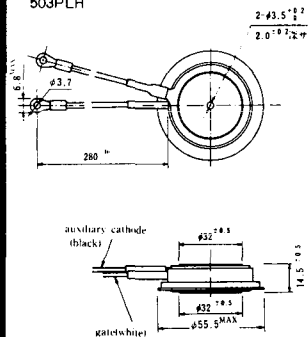
NI-8

89RW
129RW



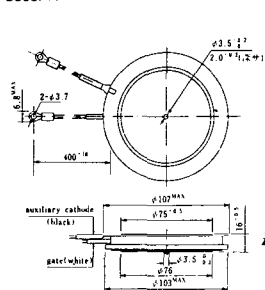
NI-16

503PLF
503PLH



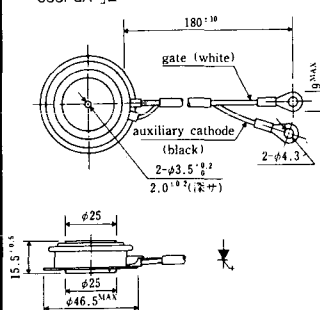
NI-17

3003PA



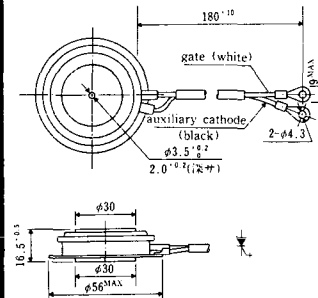
NI-18

353PGA「J」E



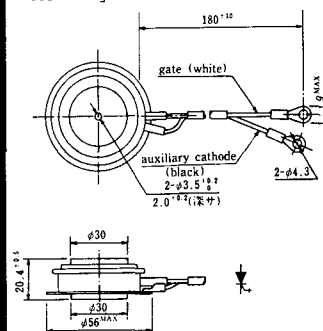
NI-19

603PGA, 603PGA「J」A, 803PGA



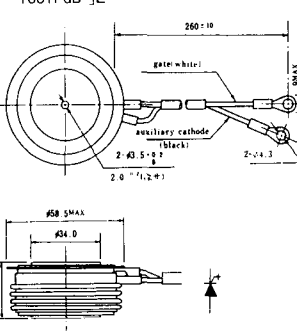
NI-20

603PGA「J」E



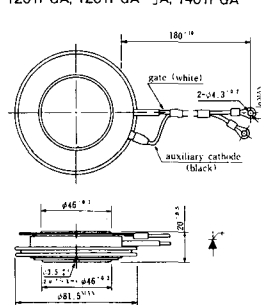
NI-21

1001PGB「J」E



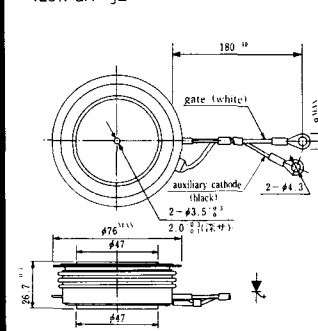
NI-22

1201PGA, 1201PGA「J」A, 1401PGA



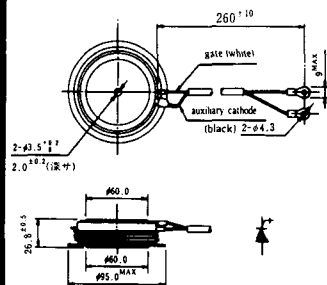
NI-23

1201PGA「J」E



NI-24

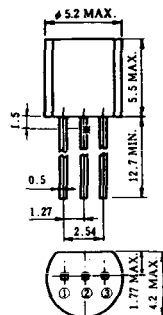
2001PGB[®] JE



NI-25

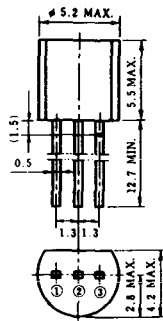
NI-26

NT-1



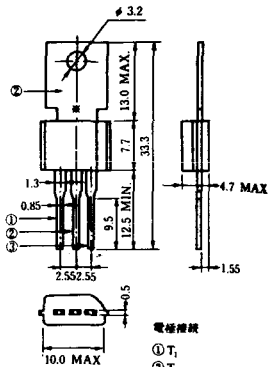
電極接続
①T₁
②ゲート
③T₂

NT-2



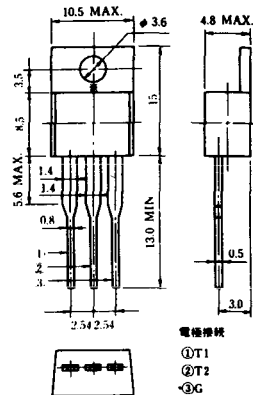
電極接続
①T₁
②ゲート
③T₂

NT-3



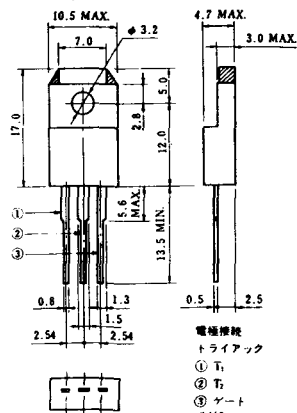
電極接続
①T₁
②T₂
③ゲート

NT-4



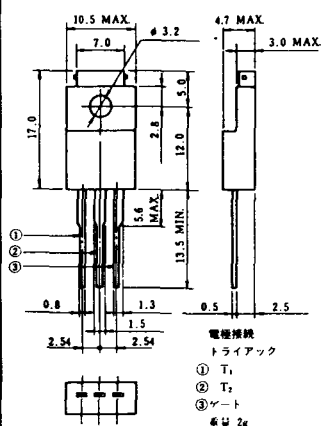
電極接続
①T₁
②T₂
③G

NT-5



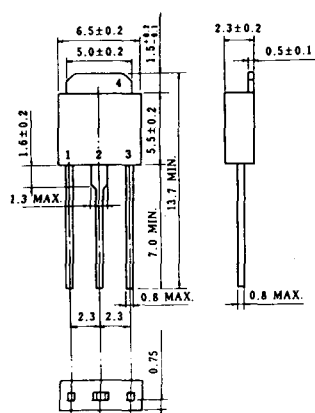
電極接続
トライアック
①T₁
②T₂
③ゲート
④2g

NT-6

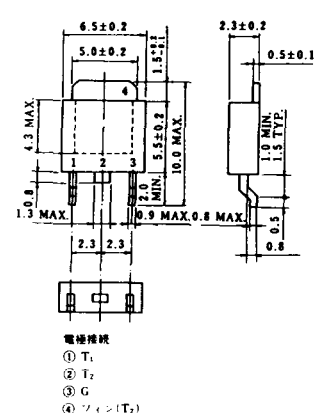


電極接続
トライアック
①T₁
②T₂
③ゲート
④2k

NT-7

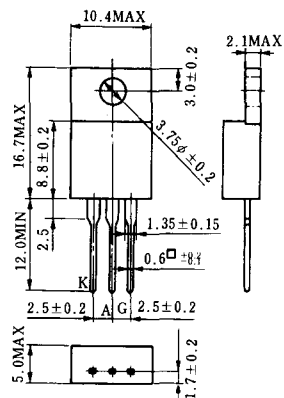


NT-8

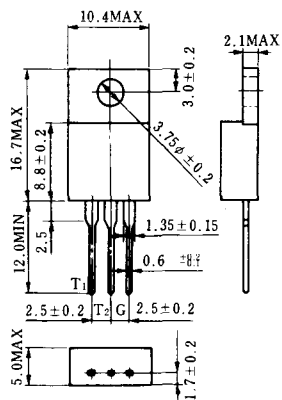


電極接続
①T₁
②T₂
③G
④フィ(T₂)

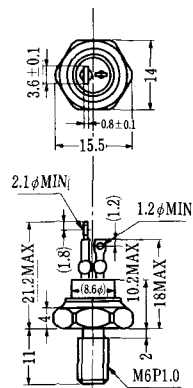
S-1



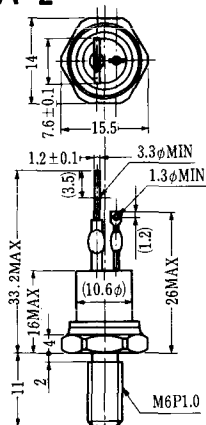
ST-1



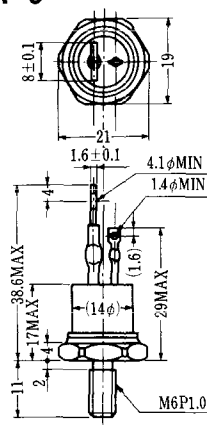
SA-1



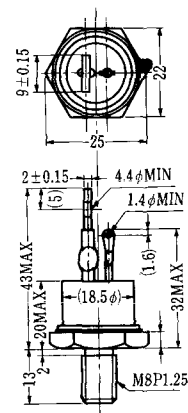
SA-2



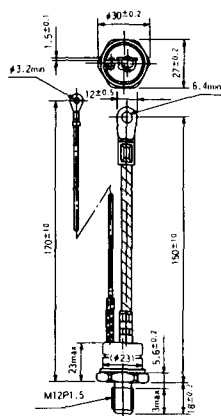
SA-3



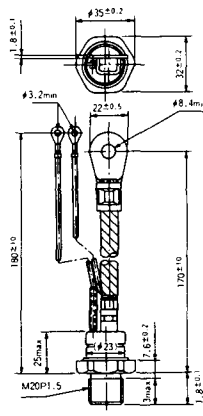
SA-4



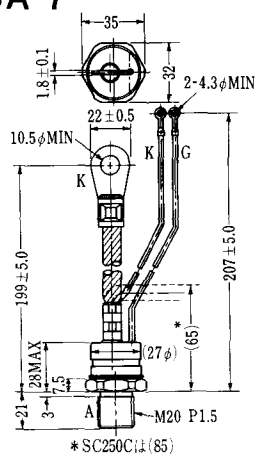
SA-5



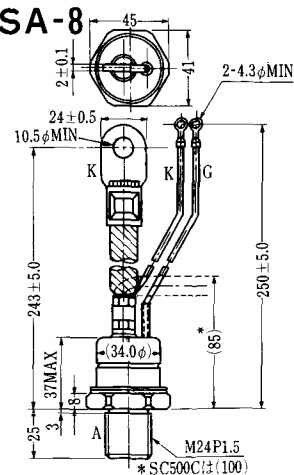
SA-6



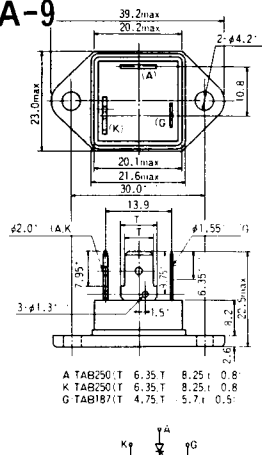
SA-7



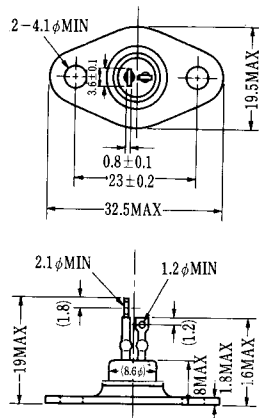
SA-8



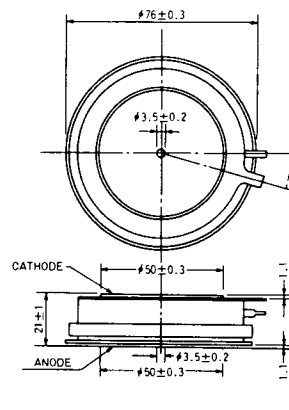
SA-9



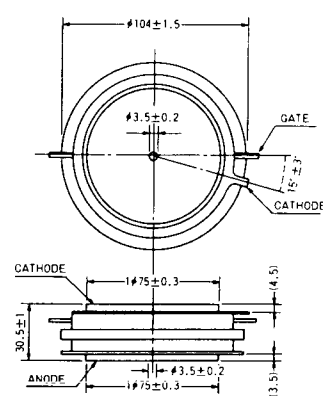
SA-10



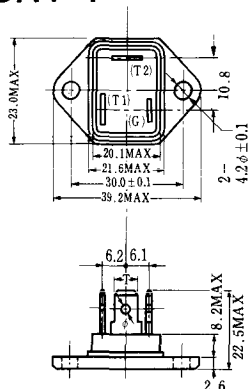
SA-11



SA-12

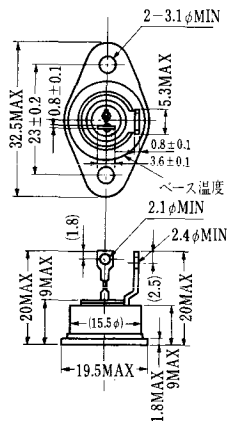


SAT-1

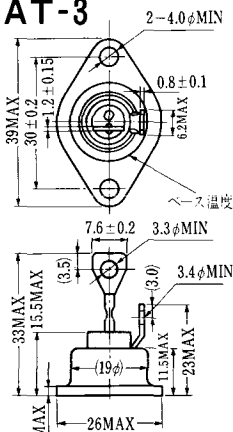


T1端子:ファストン250($T=6.35, t=0.8, \phi=1.65$)
T2端子:ファストン250($T=6.35, t=0.8, \phi=1.65$)
G端子:ファストン187($T=4.75, t=0.5, \phi=1.3$)

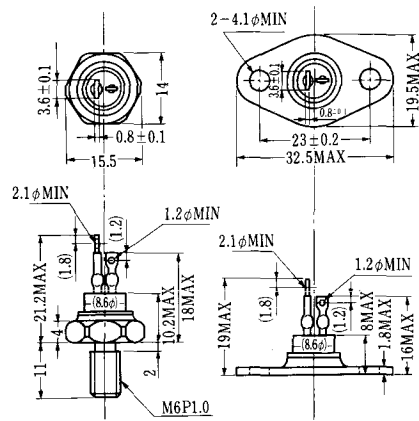
SAT-2



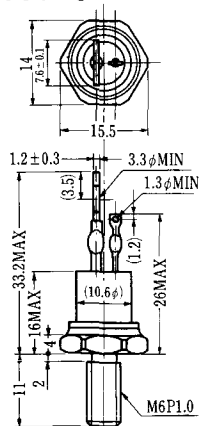
SAT-3



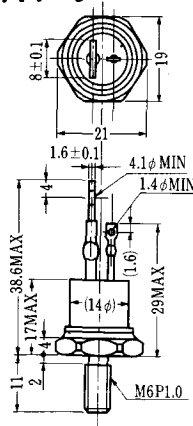
SAT-4



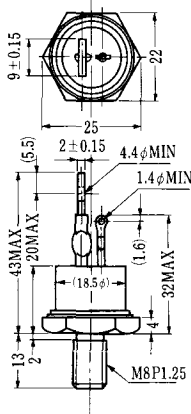
SAT-5



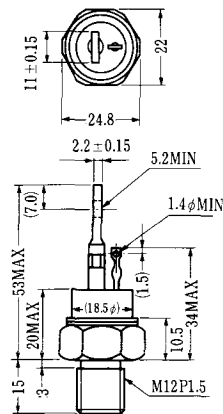
SAT-6



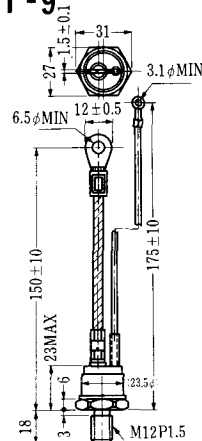
SAT-7



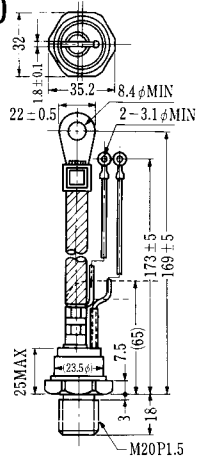
SAT-8



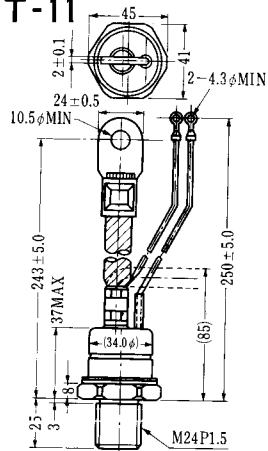
SAT-9.



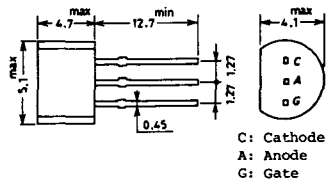
SAT-10



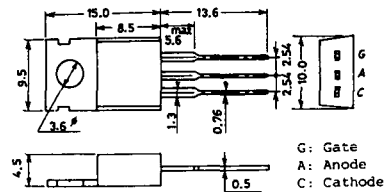
SAT-11



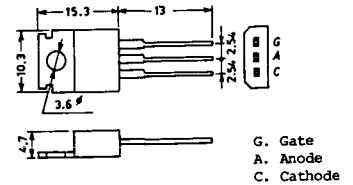
SY-1(1096A)



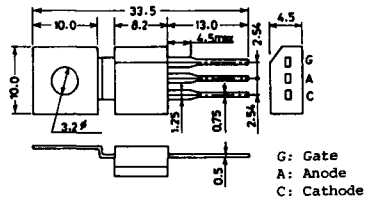
SY-2(1151)



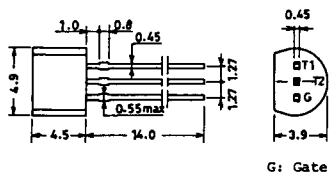
SY-3(1104)



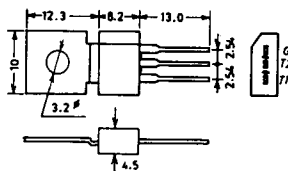
SY-4(1150)



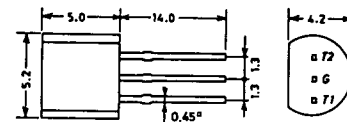
1097A



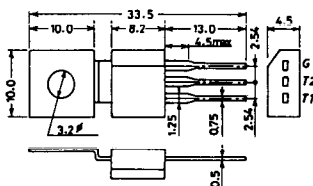
1102



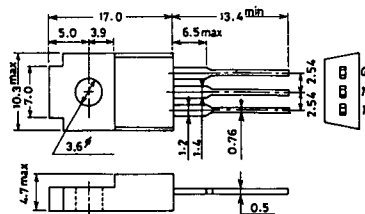
1141



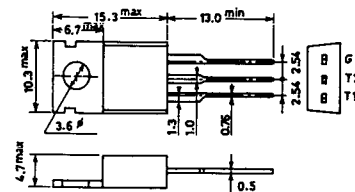
1142



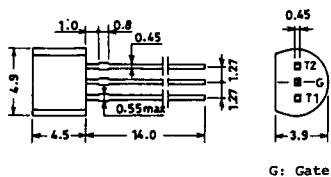
1144



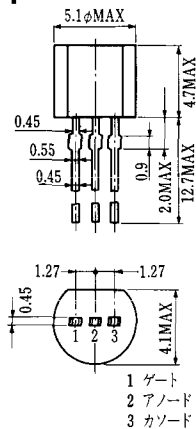
1155



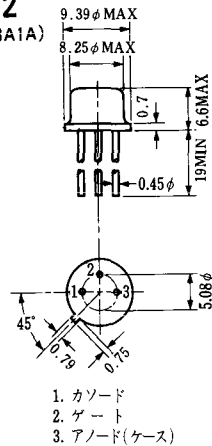
1192A



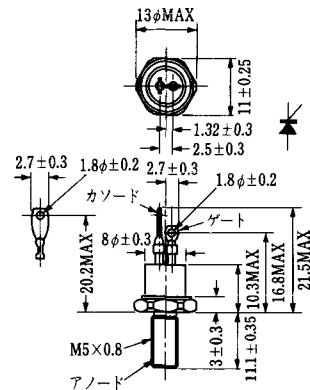
T-1 (13-5A1A)



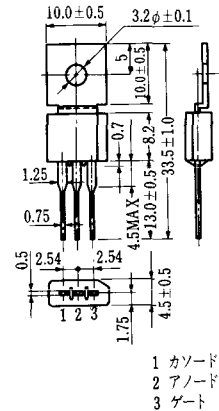
T-2 (13-8A1A)



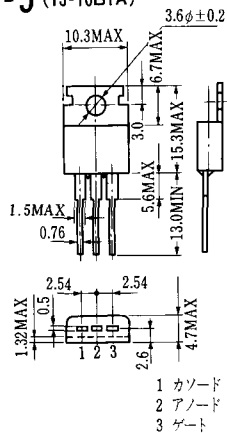
T-3 (13-8C1A)



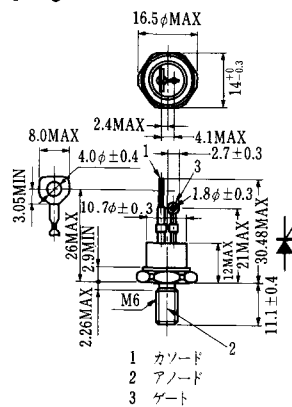
T-4 (13-10A1A)



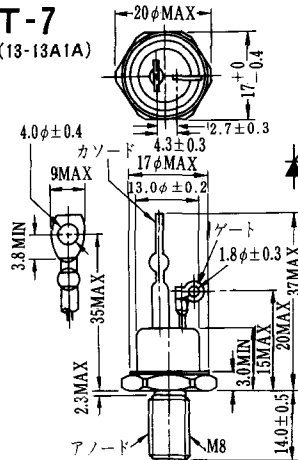
T-5 (13-10B1A)



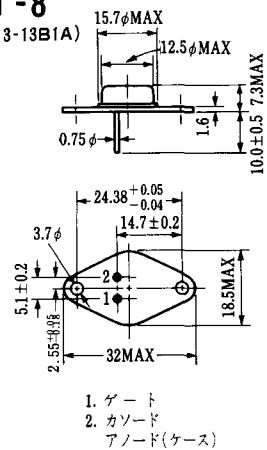
T-6 (13-11D1A)



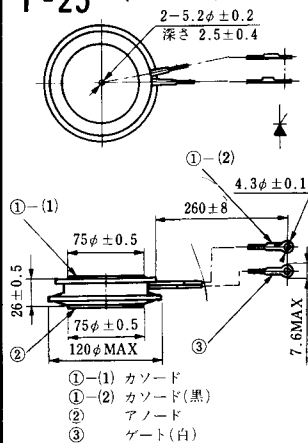
T-7 (13-13A1A)



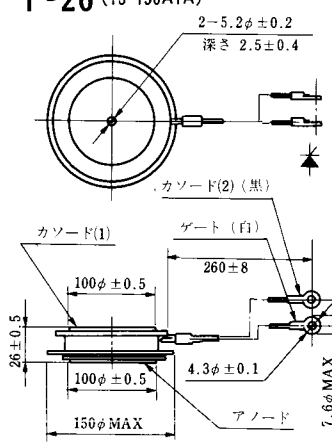
T-8 (13-13B1A)



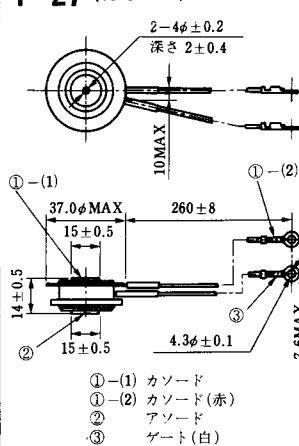
T-25 (13-120A2A)



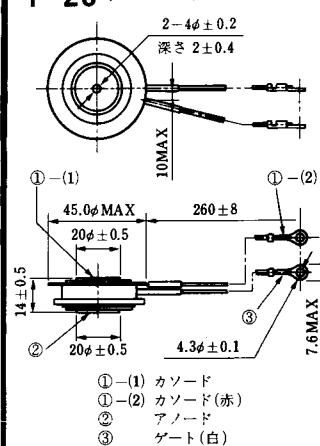
T-26 (13-150A1A)



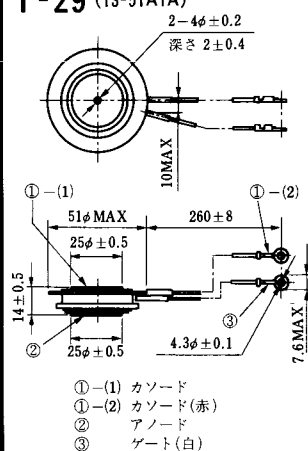
T-27 (13-37A1A)



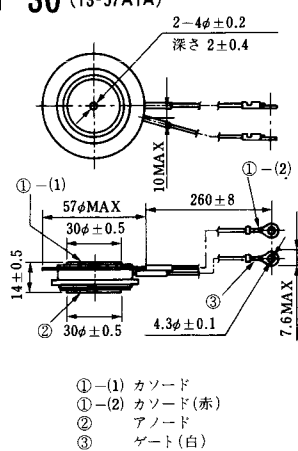
T-28 (13-45E1A)



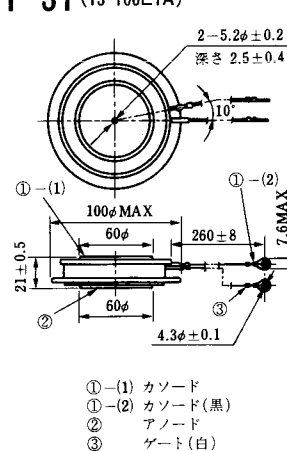
T-29 (13-51A1A)



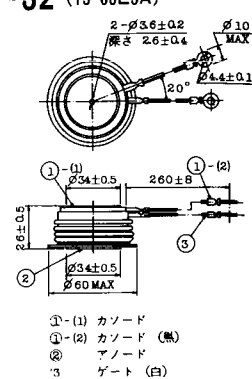
T-30 (13-57A1A)



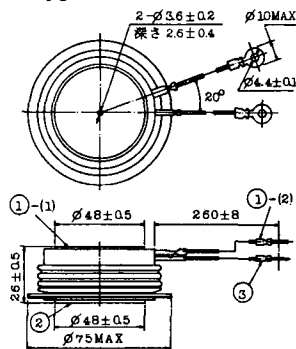
T-31 (13-100E1A)



T-32 (13-60E3A)

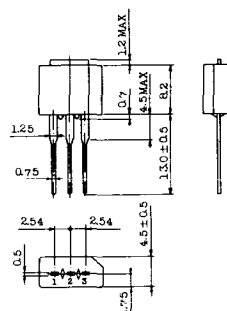


T-49 (13-75A1A)



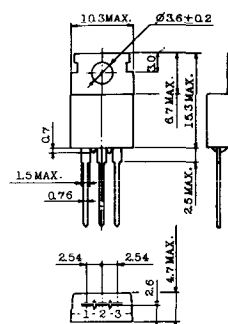
- 1-(1) カソード
- 1-(2) カソード (黒)
- 2 アノード
- 3 ゲート (白)

T-50 (13-10A3A)



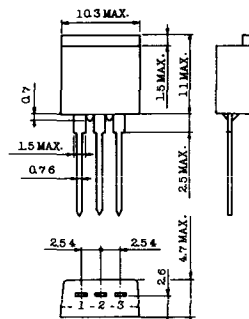
- 1 カソード
- 2 アノード
- 3 ゲート

T-51 (13-10D1A)



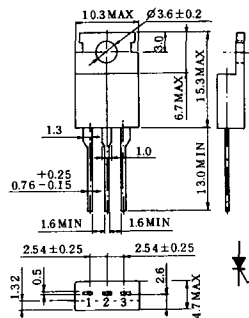
- 1 カソード
- 2 アノード
- 3 ゲート

T-52 (13-10D2A)



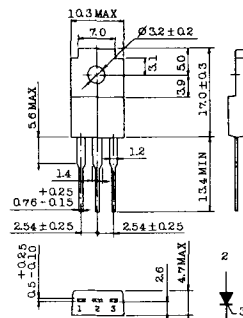
- 1 カソード
- 2 アノード
- 3 ゲート

T-53 (13-10E1B)



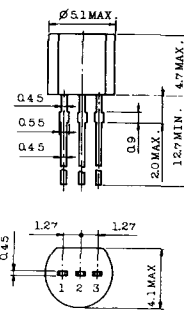
- 1 カソード
- 2 アノード
- 3 ゲート

T-54 (13-10F1B)



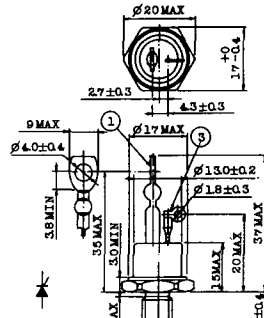
- 1 カソード
- 2 アノード
- 3 ゲート

T-55 (13-5A1D)



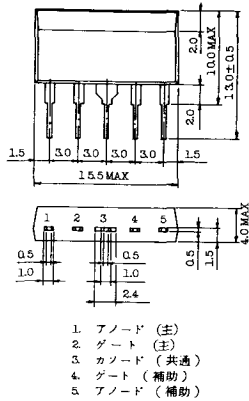
- 1 カソード
- 2 ゲート
- 3 アノード

T-56 (13-13C1A)

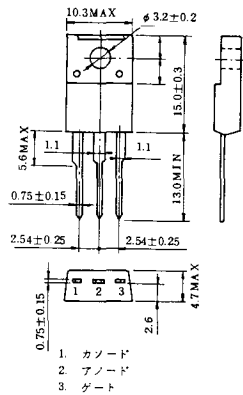


- 1 カソード
- 2 アノード
- 3 ゲート

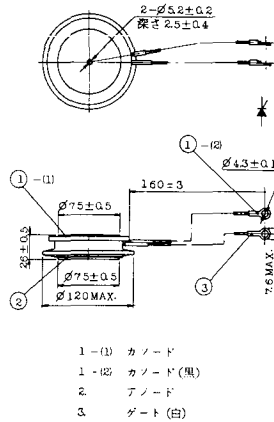
T-57 (12-16C1A)



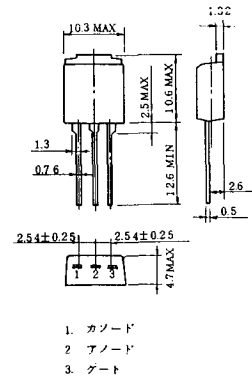
T-58 (13-10H1B)



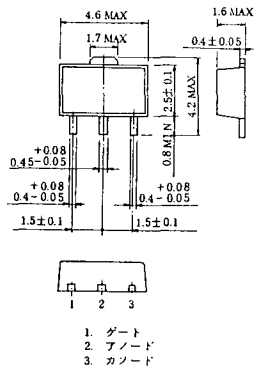
T-59 (13-120A1A)



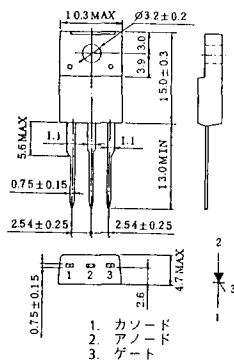
T-60



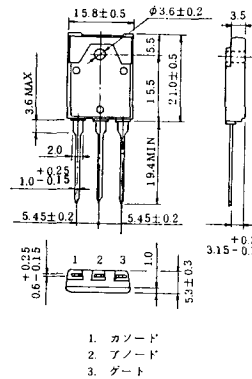
T-61 (13-5B1A)



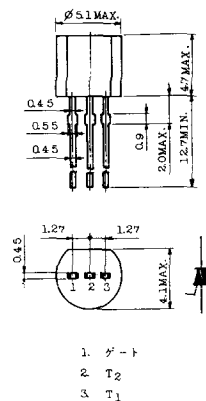
T-62 (13-10H1A)



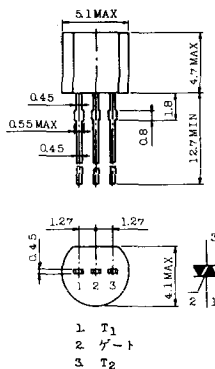
T-63 (13-16A1B)



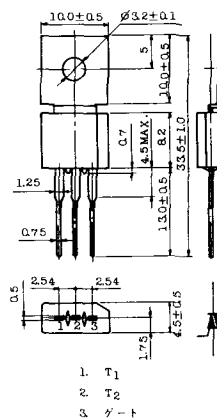
TT-1



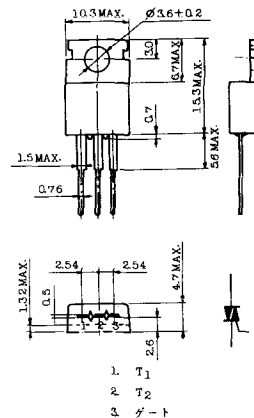
TT-2



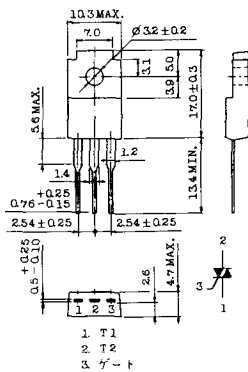
TT-3



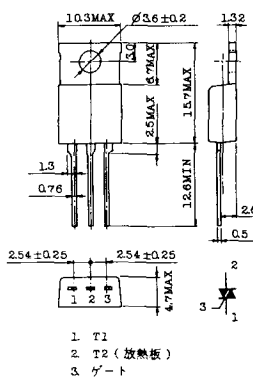
TT-4



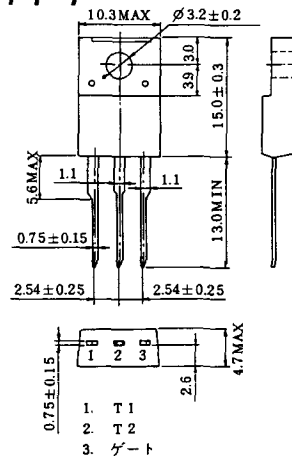
TT-5



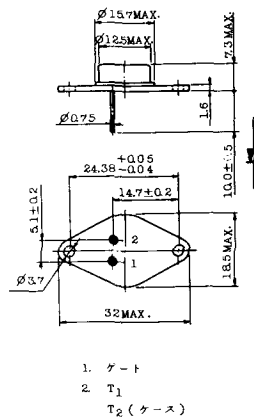
TT-6



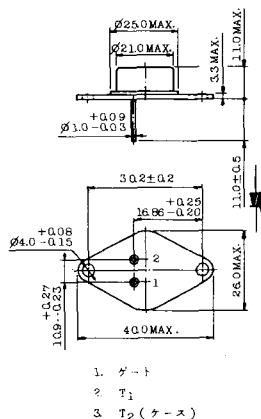
TT-7



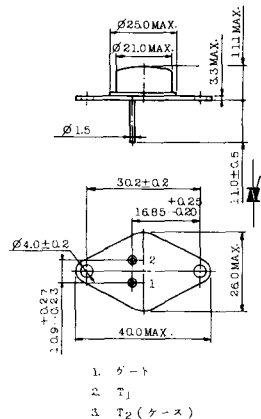
TT-8



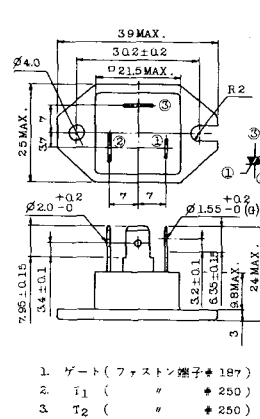
TT-9



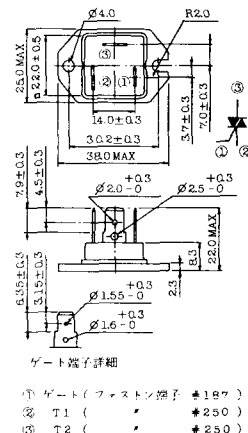
TT-10



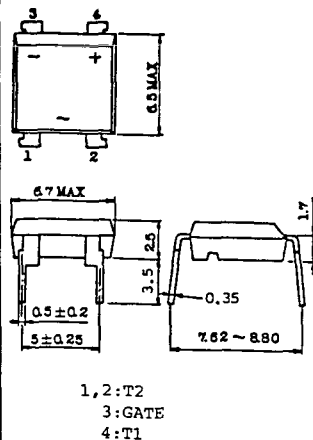
TT-11



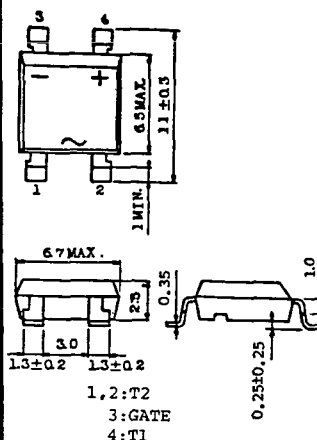
TT-12



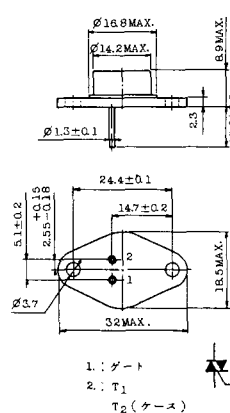
TT-13



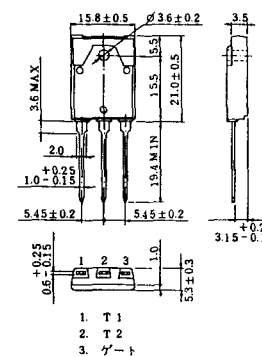
TT-14



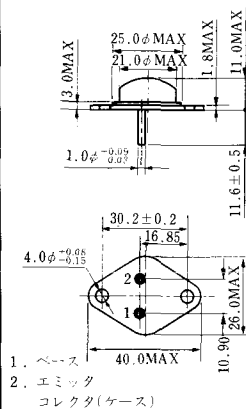
TT-15 (13-14A1B)



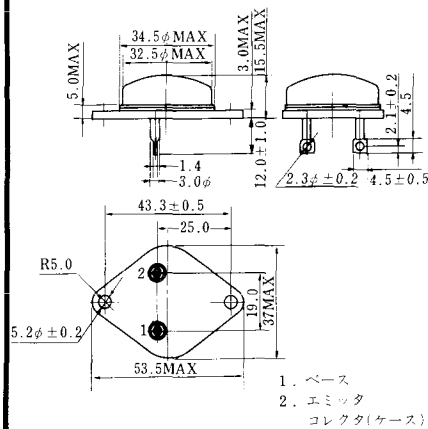
TT-16 (13-16A1A)



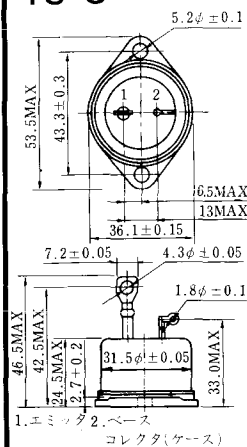
TS-1



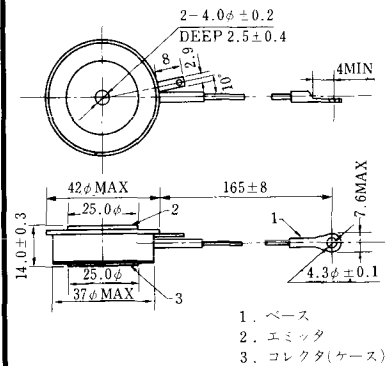
TS-2



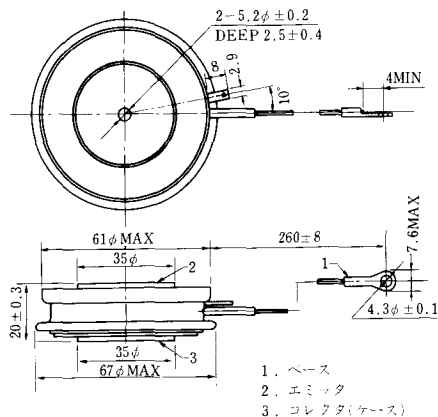
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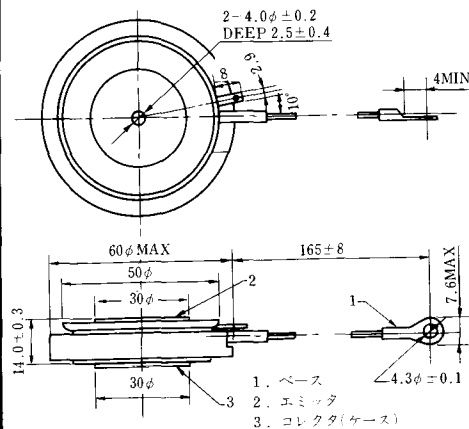
TS-4



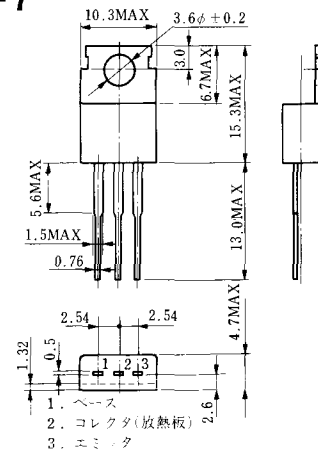
TS-5



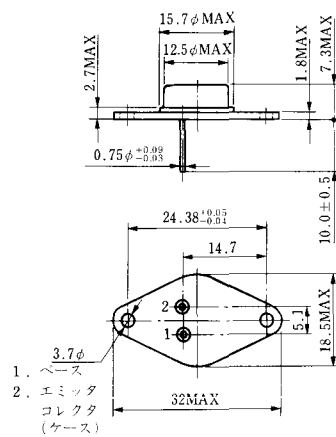
TS-6

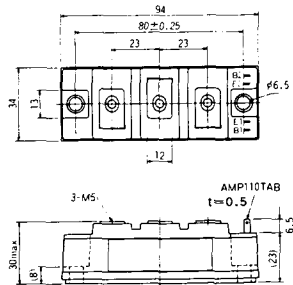
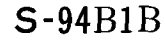
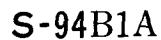
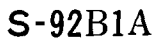
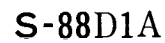
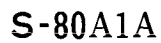


TS-7

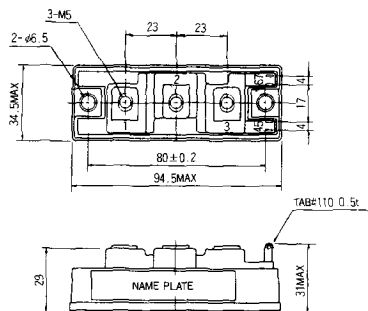


TS-8

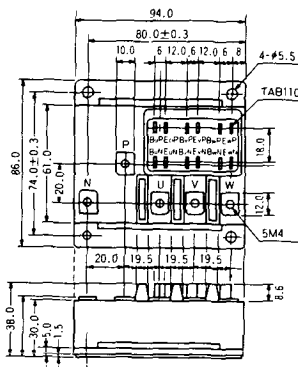




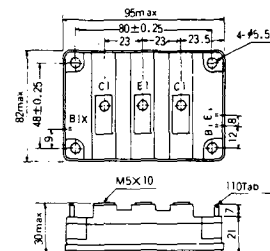
S-94B2A



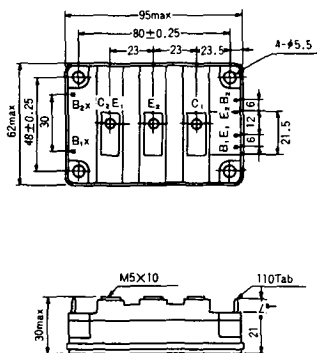
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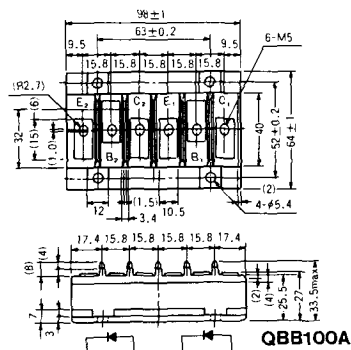
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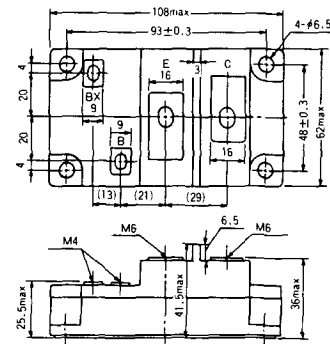
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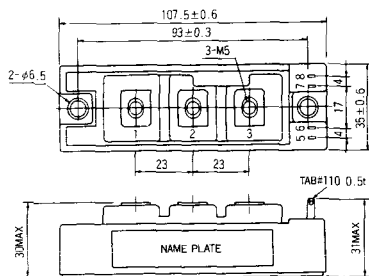
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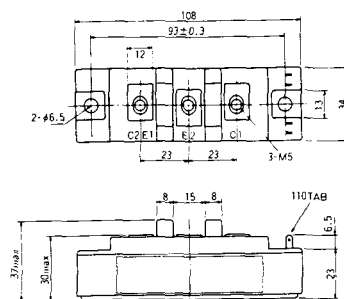
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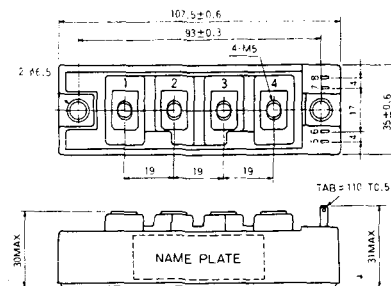
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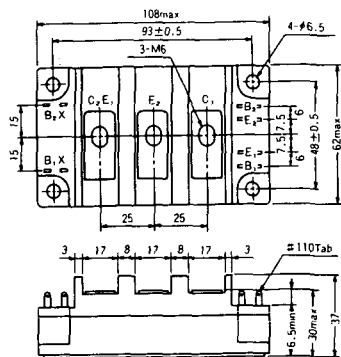
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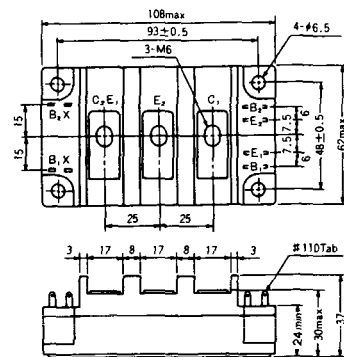
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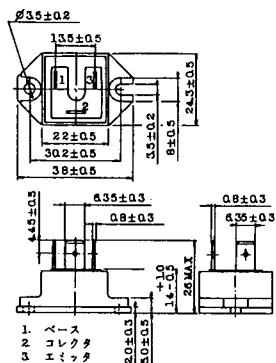
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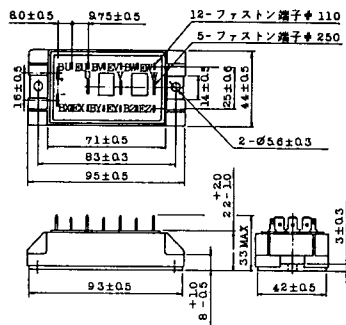
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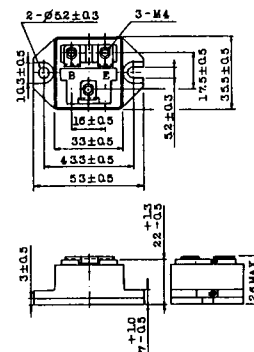
2-22B1A



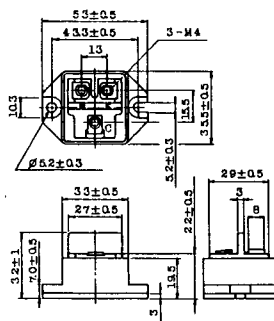
2-27A4A



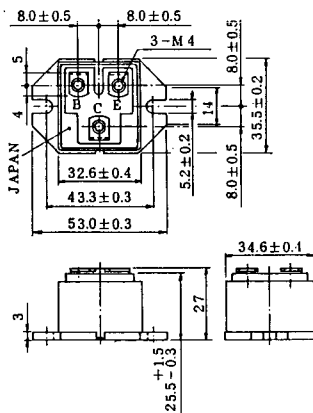
2-33C1A



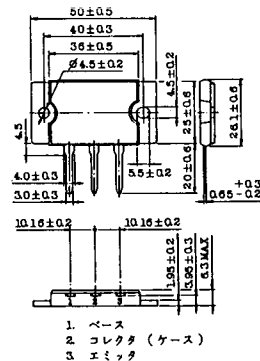
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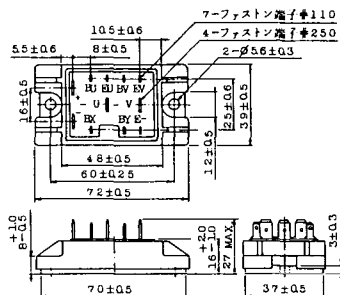
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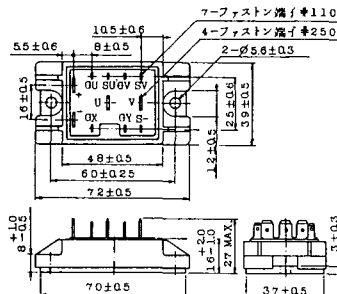
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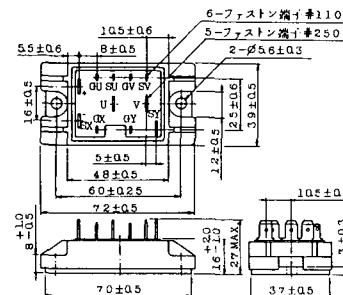
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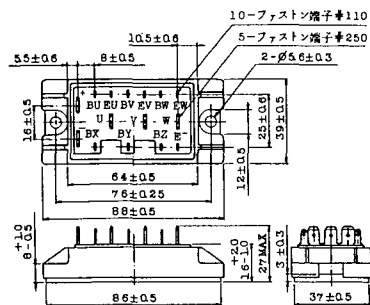
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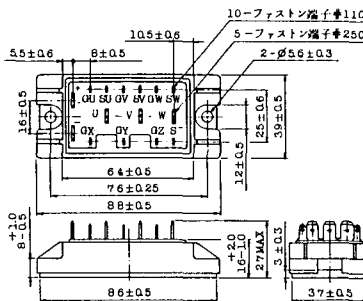
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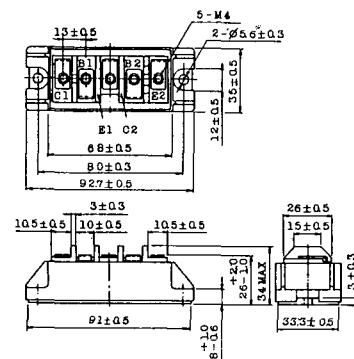
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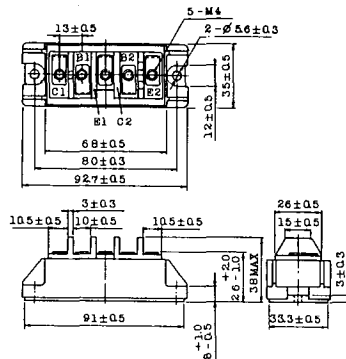
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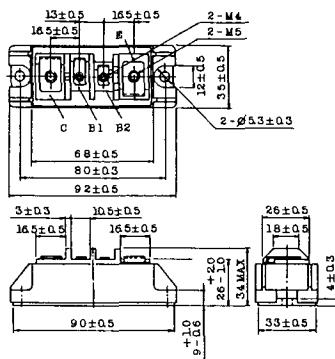
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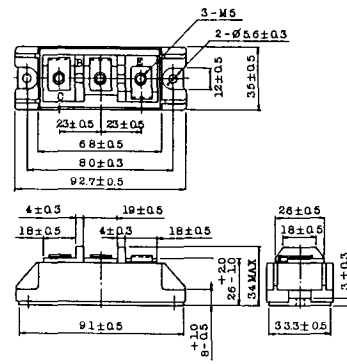
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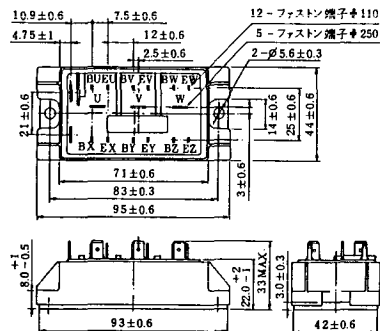
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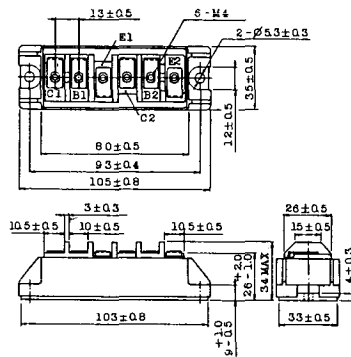
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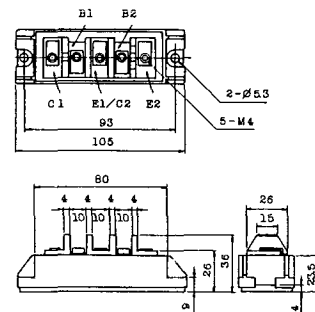
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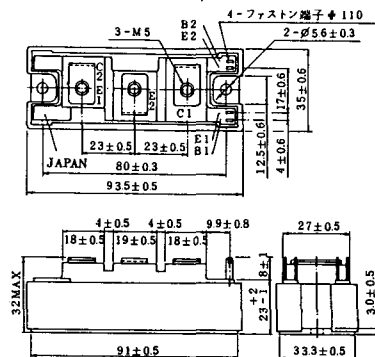
2-80A1A



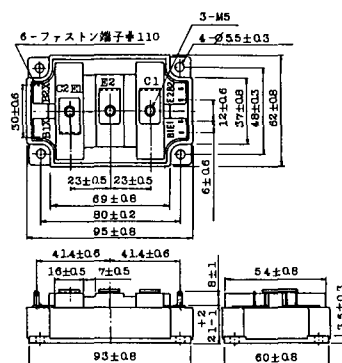
2-80B1A



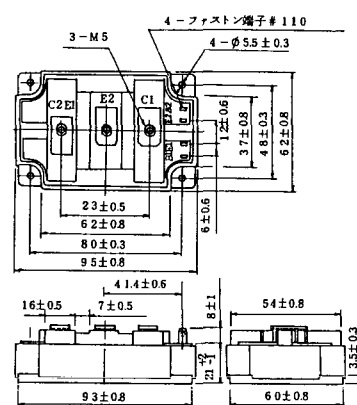
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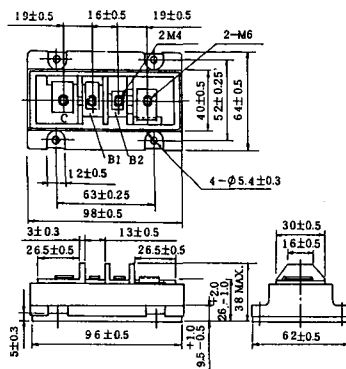
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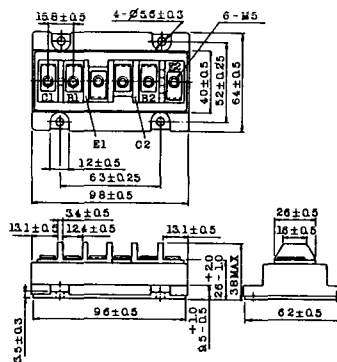
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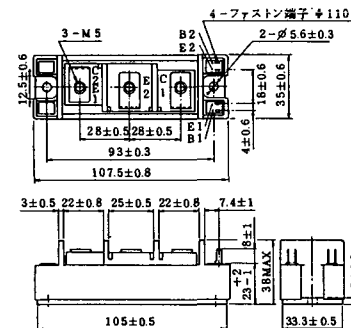
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2-98C2A

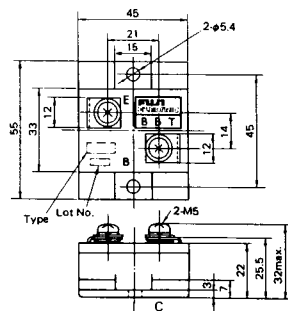


2-108A2A



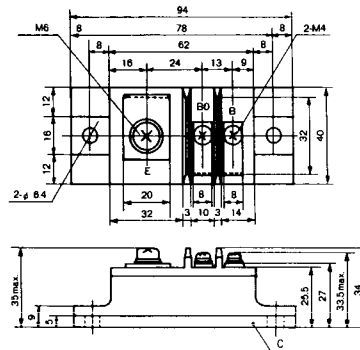
BBT-II

BBTII
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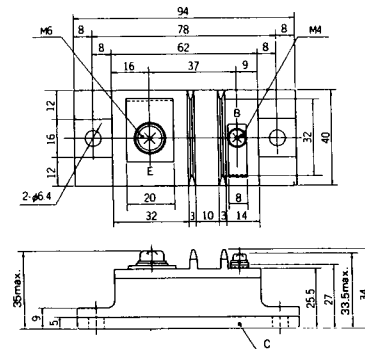
BBT-III

BBTIII
ETN31-055
ETM36-030
ETN36-030
ETN35-030



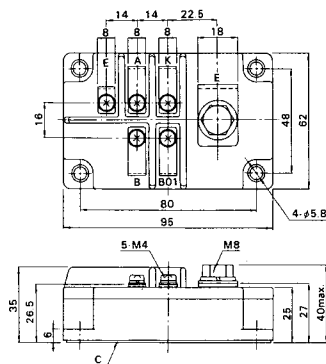
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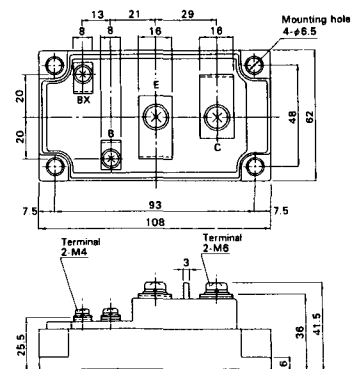
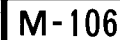
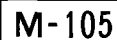
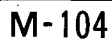
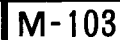
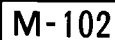
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ET1257



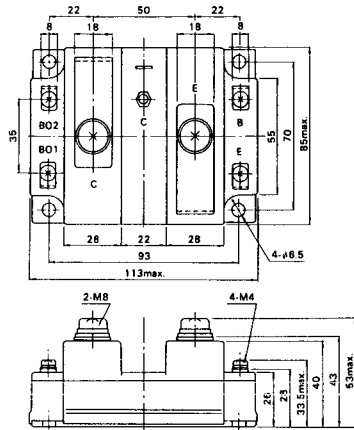
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BBTIV
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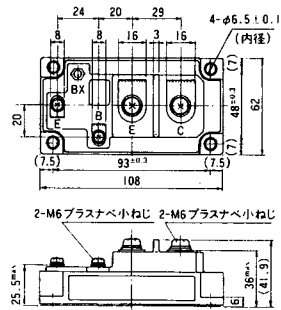




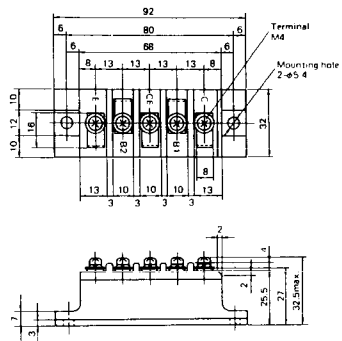
M-107



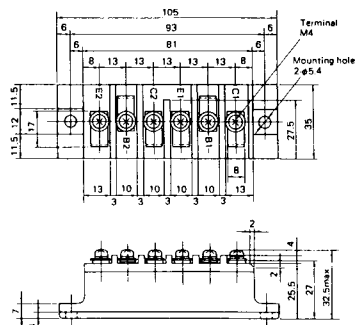
M-116



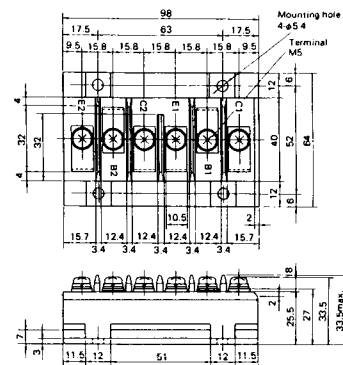
M-201



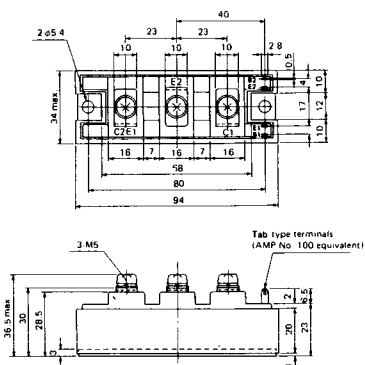
M-202



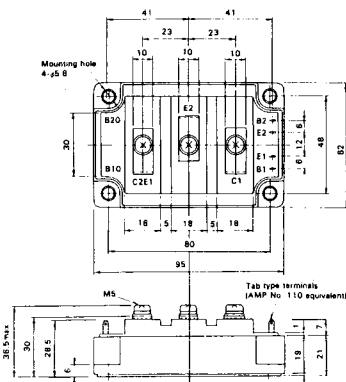
M-203



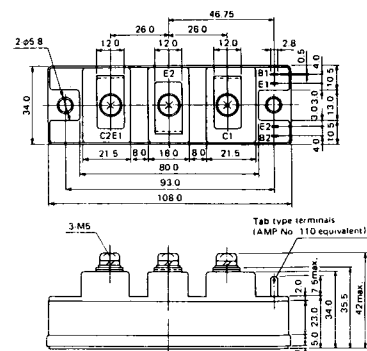
M-204

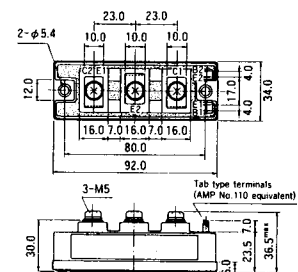
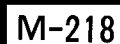
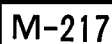
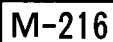
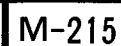
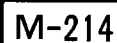


M-205

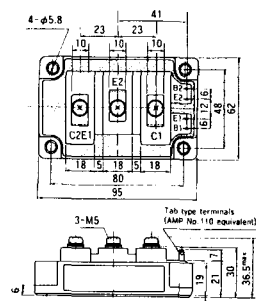


M-206

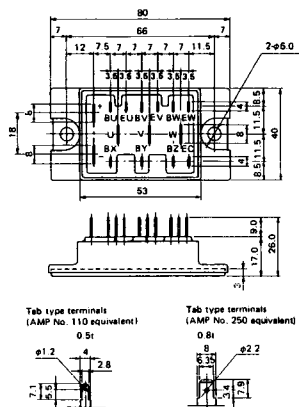




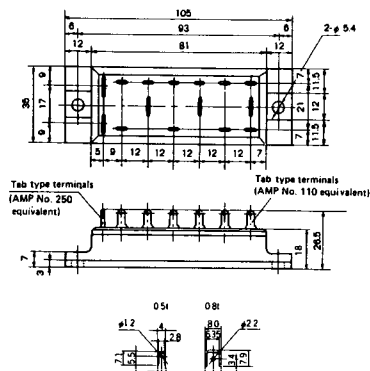
M-219



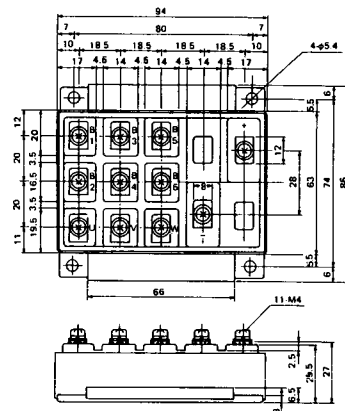
M-601



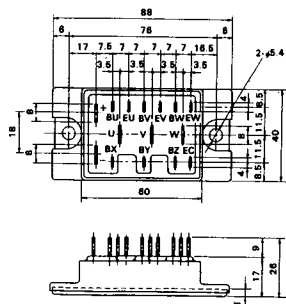
M-602



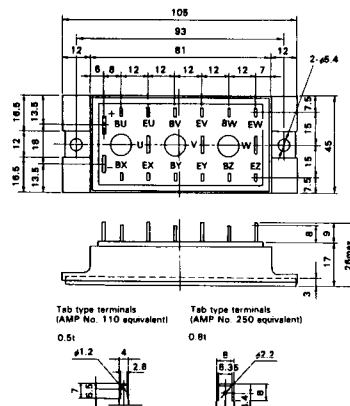
M-603



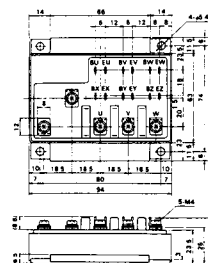
M-604



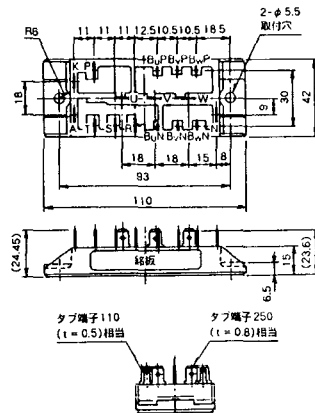
M-605



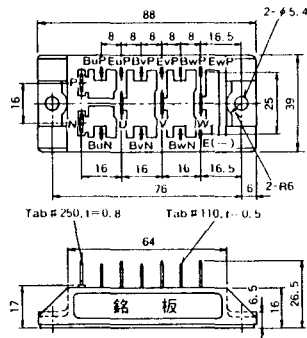
M-606



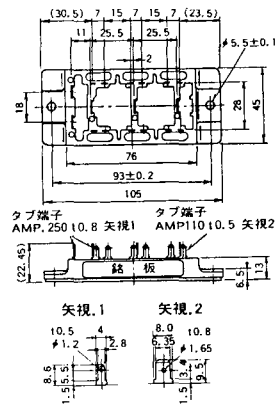
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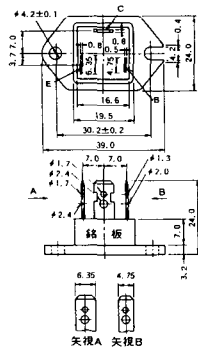
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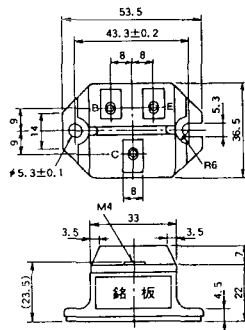
M-2G6A



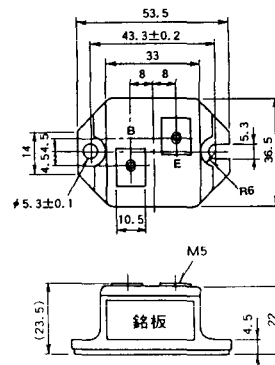
M-3A1A



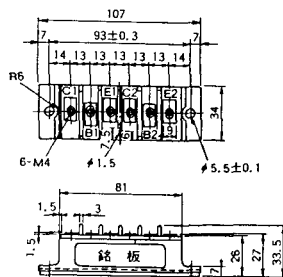
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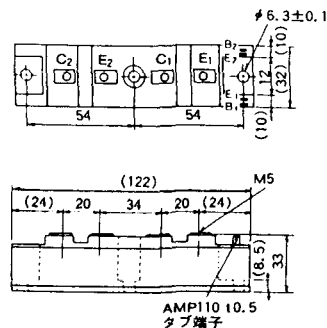
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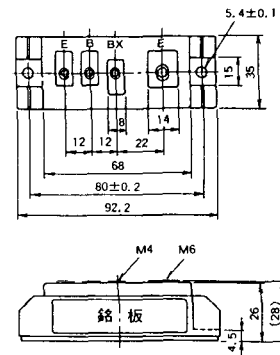
M-5C2A



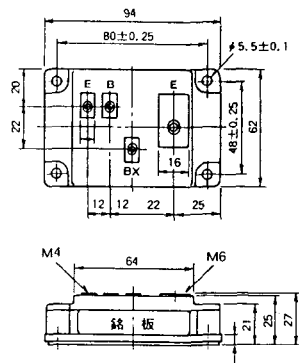
M-5D2A



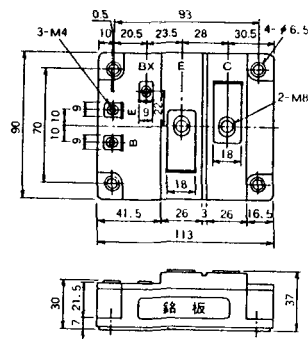
M-6A1A



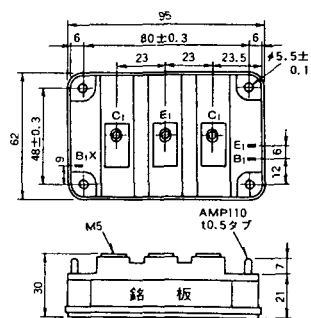
M-7A1A



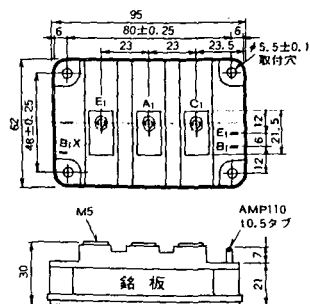
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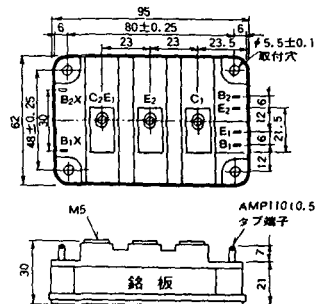
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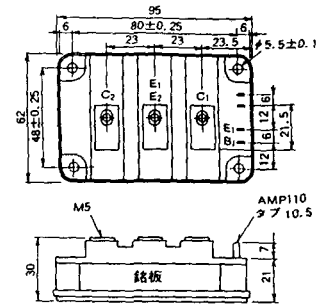
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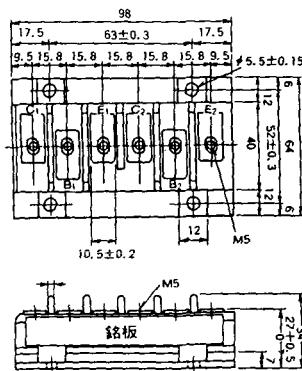
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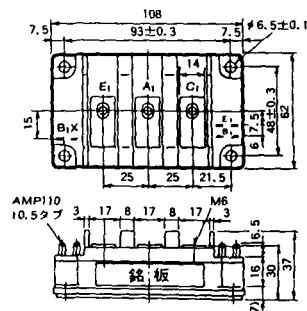
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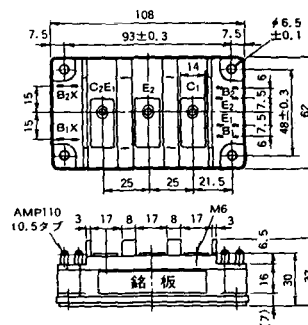
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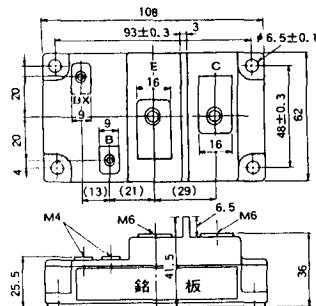
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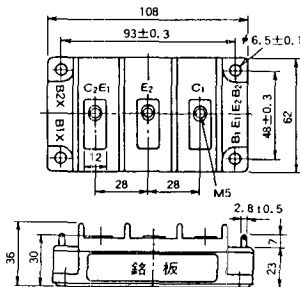
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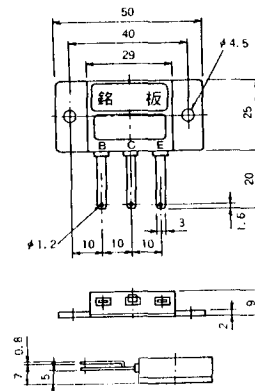
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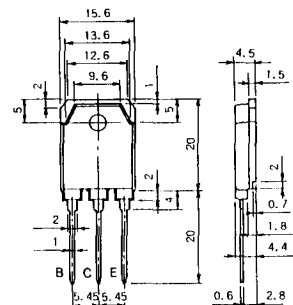
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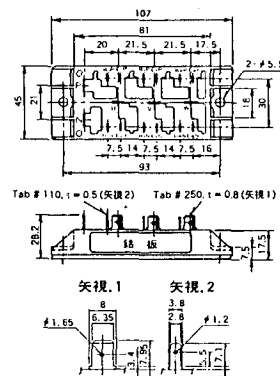
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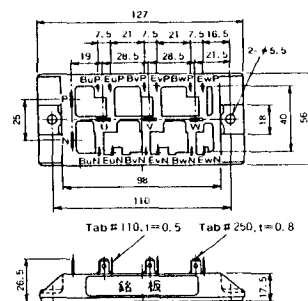
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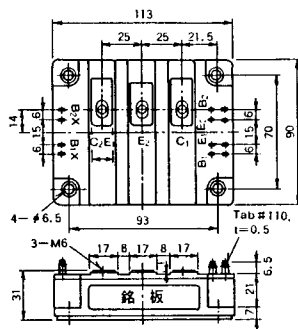
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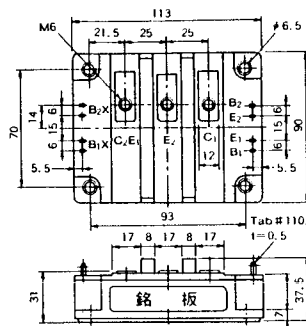
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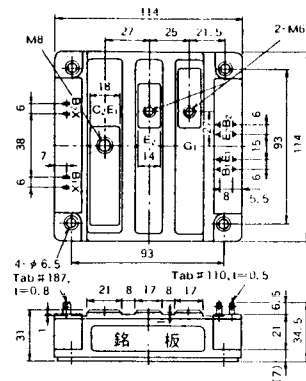
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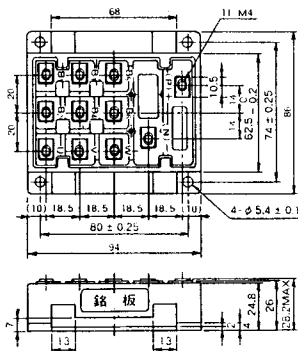
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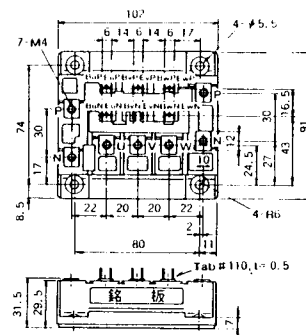
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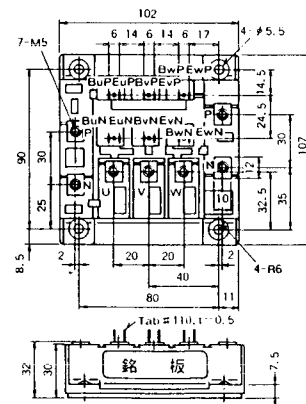
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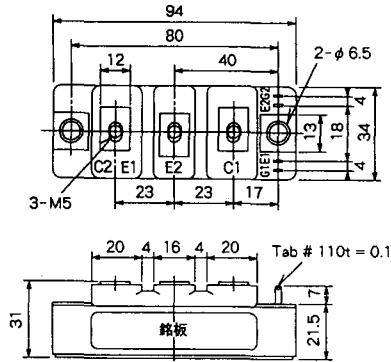
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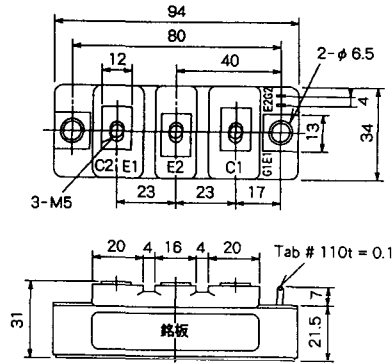
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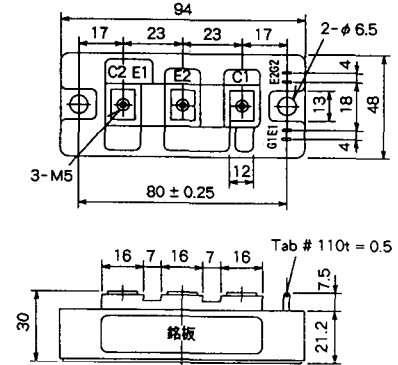
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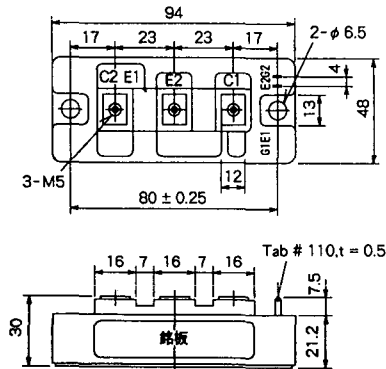
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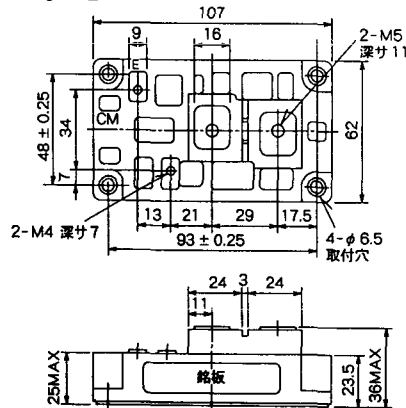
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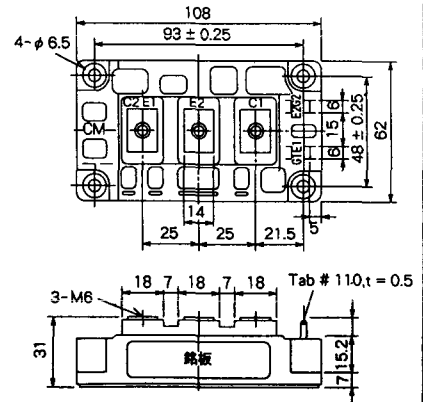
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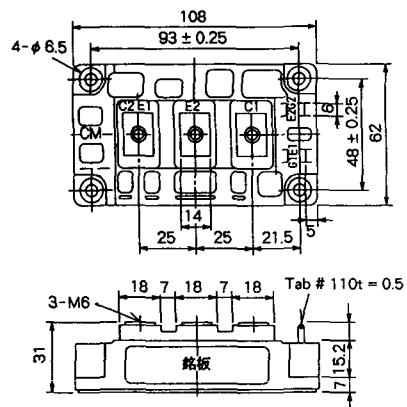
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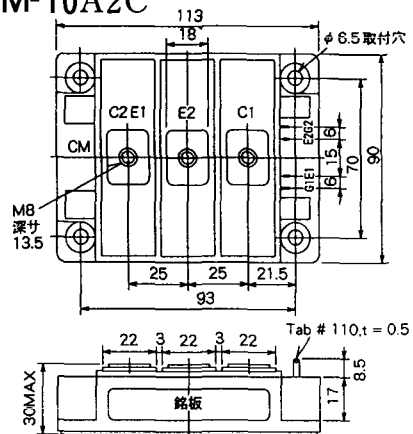
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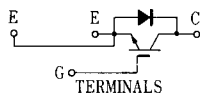
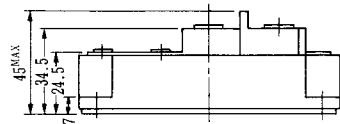
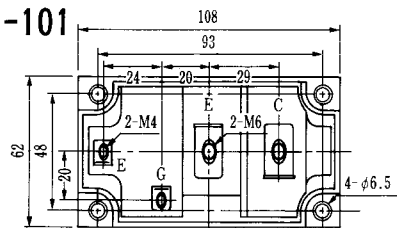
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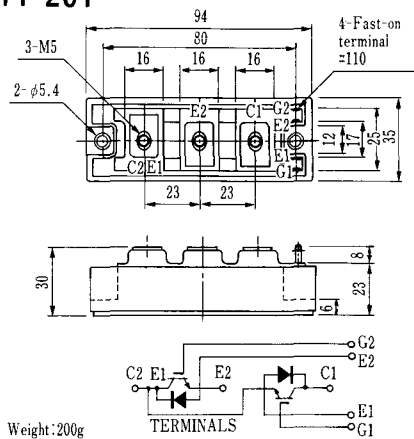


H-101

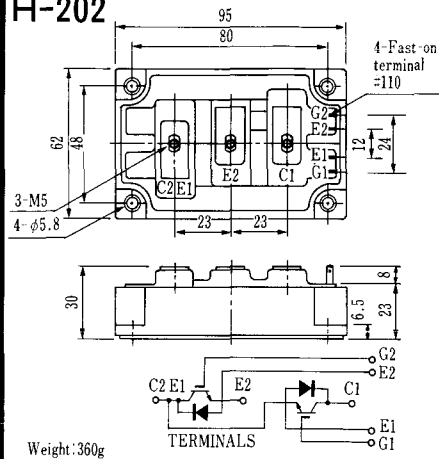


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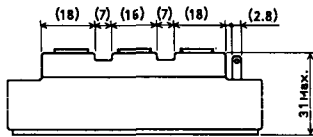
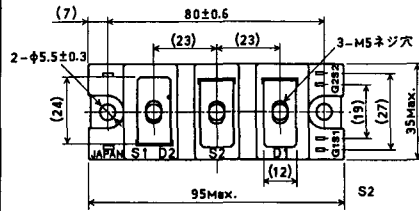
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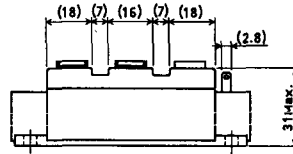
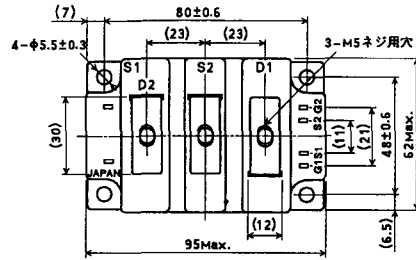
H-202



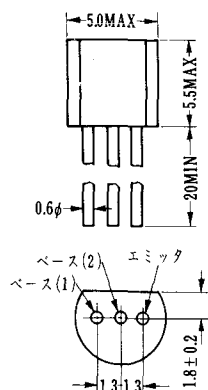
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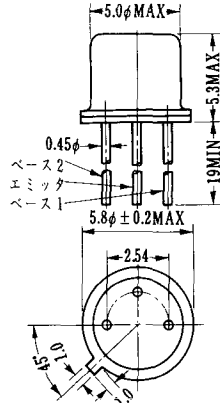
LF-K



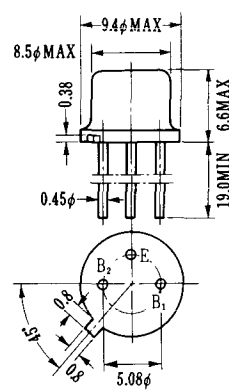
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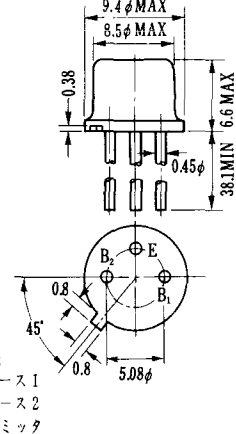
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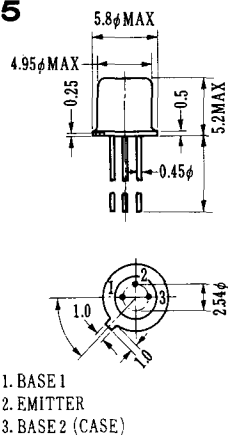
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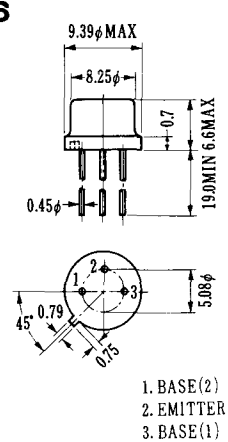
U-4



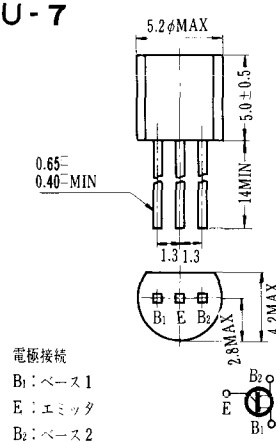
U-5



U-6



U-7



U-8

