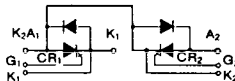


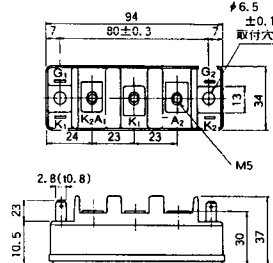
GM100DY

- 中電力インバータ用
- 絶縁形 (主端子〜ケース間 2500V)

■接続図



■外形図



■最大定格

記号	GM100DY-16	GM100DY-20	GM100DY-24	単位
V_{RRM}				V
V_{DRM}	800	1000	1200	V
I_{TGM}	100 ($V_D = \frac{1}{2} V_{DRM}$, $I_{GQ} = -20A$, $T_J = 125^\circ C$, $C_S = 0.1\mu F$, $L_S = 0.1\mu H$)			
$I_{T(AV)}$	20 (単相半波, $T_r = 65^\circ C$)			
$I_{T(RMS)}$	31			
I_{TSM}	400 (50Hz/60Hz, 正弦半波 1 サイクル液高値)			
$I^2 \cdot t$	6.7×10^3			
di/dt	200 ($T_J = 125^\circ C$, $V_D = \frac{1}{2} V_{DRM}$, $I_G = 4A$)			
P_{GM}	20			
$P_{G(AV)}$	6			
$V_{G(RM)}$	15			
$I_{G(RM)}$	6			
T_J	$-40 \sim +125$			
T_{stg}	$-40 \sim +125$			

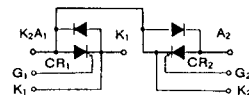
■電気的特性

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_J = 125^\circ C$, $V_D = V_{DRM}$			10	mA
I_{DRM}	$T_J = 125^\circ C$, $V_D = V_{DRM}$			10	mA
V_{TM}	$T_J = 125^\circ C$, $I_{TM} = 100A$			4.5	V
V_{GT}	$T_J = 25^\circ C$, $V_D = 24V$			1.5	V
I_{GT}	$R_L = 2\Omega$			400	mA
V_{GD}					V
I_{GD}					mA
V_{GQ}					V
I_{GQ}					A
dv/dt	$T_J = 125^\circ C$, $V_D = \frac{1}{2} V_{DRM}$	1000			V/ μs
I_n					mA
t_{ei}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			4	μs
t_{er}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			8	μs
R_{th}	接合部〜ケース間			0.7	$^\circ C/W$

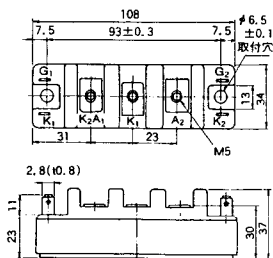
GM200DY

- 中電力インバータ用
- 絶縁形 (主端子〜ケース間 2500V)

■接続図



■外形図



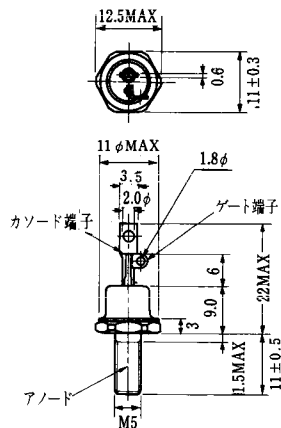
■最大定格

記号	GM200DY-16	GM200DY-20	GM200DY-24	単位
V_{RRM}				V
V_{DRM}	800	1000	1200	V
I_{TGM}	200 ($V_D = \frac{1}{2} V_{DRM}$, $I_{GQ} = -40A$, $T_J = 125^\circ C$, $C_S = 0.47\mu F$, $L_S = 0.1\mu H$)			
$I_{T(AV)}$	45 (単相半波, $T_r = 65^\circ C$)			
$I_{T(RMS)}$	70			
I_{TSM}	500 (50Hz/60Hz, 正弦半波 1 サイクル液高値)			
$I^2 \cdot t$	1×10^3			
di/dt	200 ($T_J = 125^\circ C$, $V_D = \frac{1}{2} V_{DRM}$, $I_G = 8A$)			
P_{GM}	36			
$P_{G(AV)}$	12			
$V_{G(RM)}$	15			
$I_{G(RM)}$	12			
T_J	$-40 \sim +125$			
T_{stg}	$-40 \sim +125$			

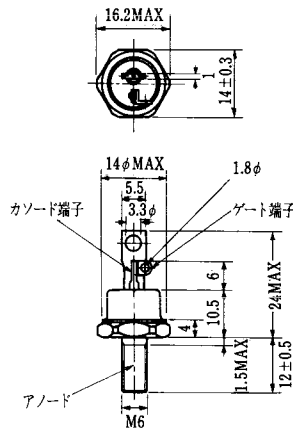
■電気的特性

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_J = 125^\circ C$, $V_D = V_{RRM}$			30	mA
I_{DRM}	$T_J = 125^\circ C$, $V_D = V_{DRM}$			30	mA
V_{TM}	$T_J = 125^\circ C$, $I_{TM} = 200A$			4.3	V
V_{GT}	$T_J = 25^\circ C$, $V_D = 24V$			1.5	V
I_{GT}	$R_L = 2\Omega$			900	mA
V_{GD}					V
I_{GD}					mA
V_{GQ}					V
I_{GQ}					A
dv/dt	$T_J = 125^\circ C$, $V_D = \frac{1}{2} V_{DRM}$	1000			V/ μs
I_n					mA
t_{ei}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			4	μs
t_{er}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			8	μs
R_{th}	接合部〜ケース間			0.7	$^\circ C/W$

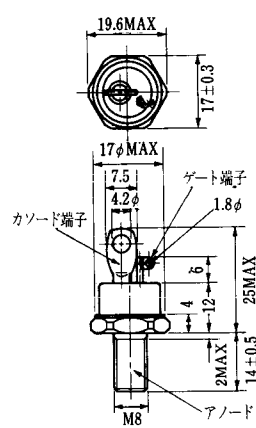
FD-1



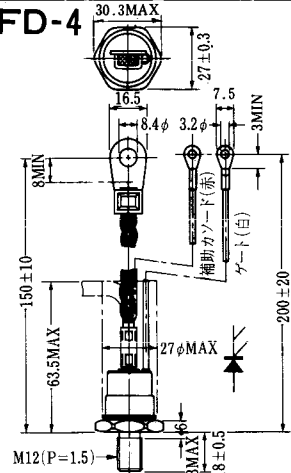
FD-2



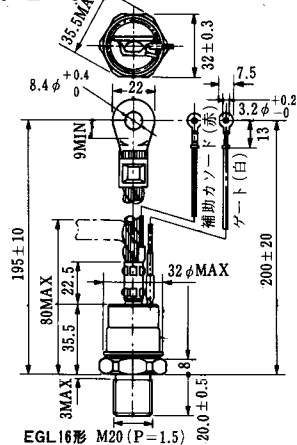
FD-3



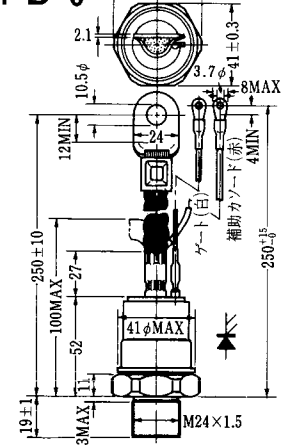
FD-4



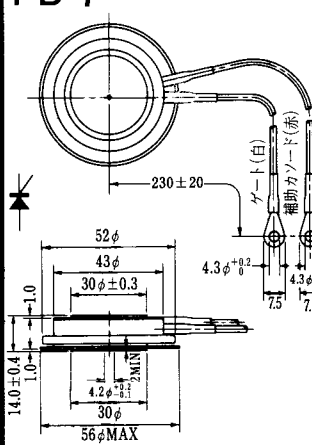
FD-5



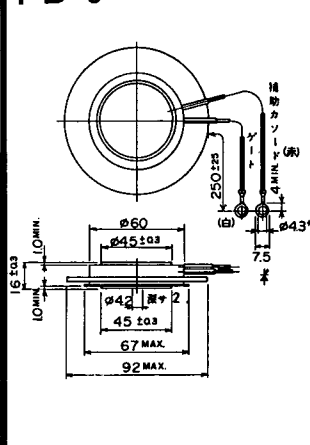
FD-6



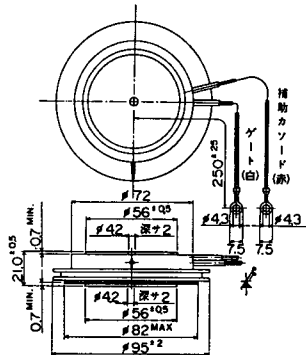
FD-7



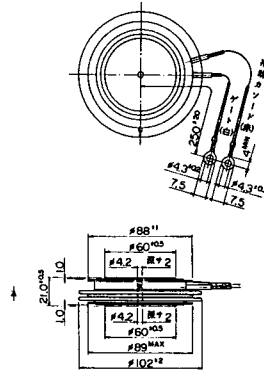
FD-8



FD-9



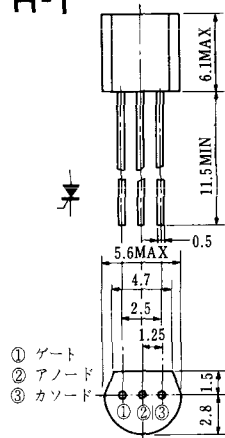
FD-10



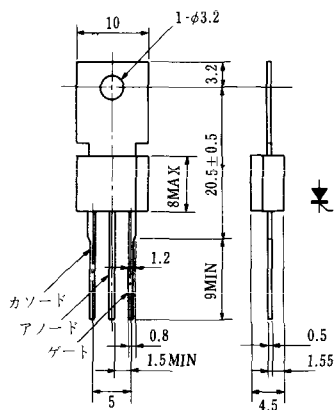
FD-11

FD-12

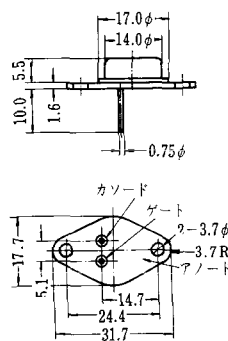
H-1



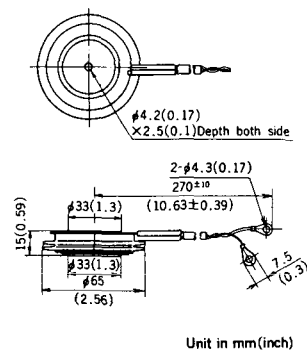
H-2



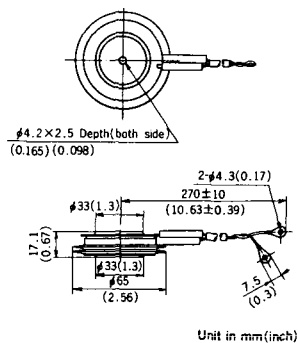
H-3



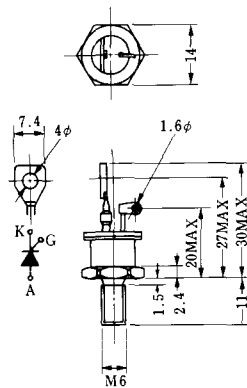
H-4



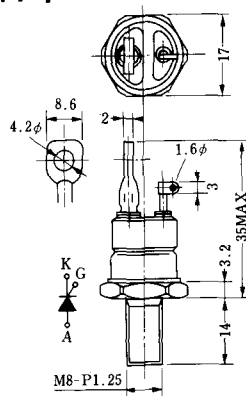
H-5



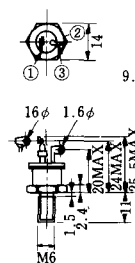
H-6



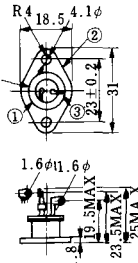
H-7



H-8A



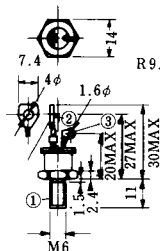
H-8B



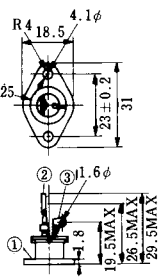
K
G
A

- ① アノード
② カソード
③ ゲート

H-9A

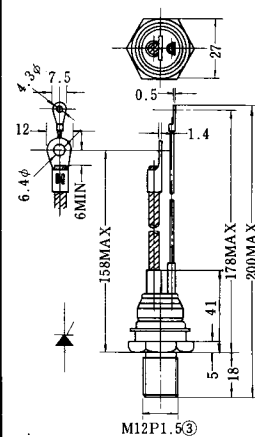


H-9B

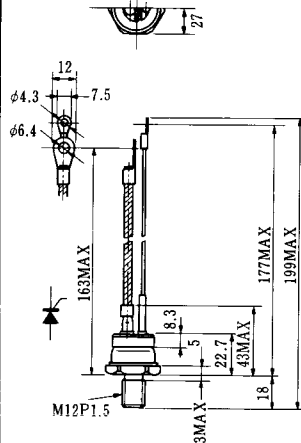


- ① アノード
- ② カソード
- ③ ゲート

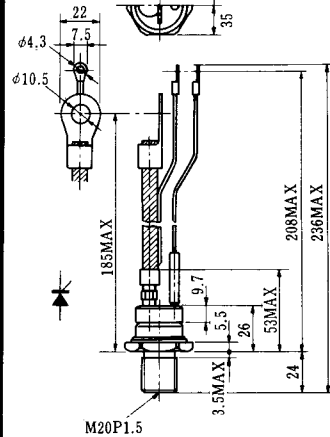
H-10



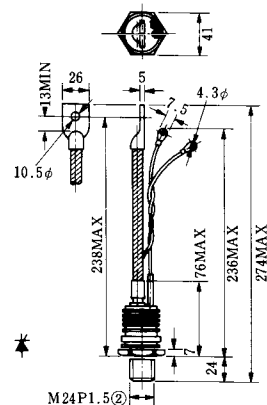
H-11



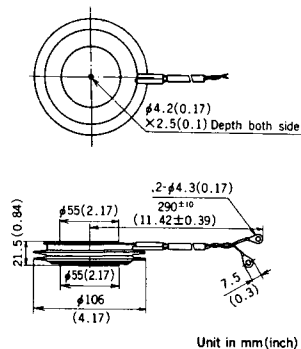
H-12



H-13

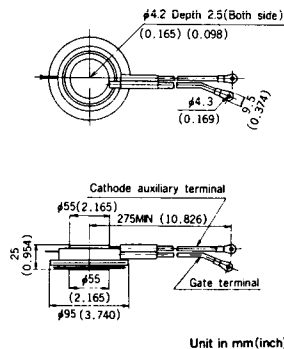


H-14



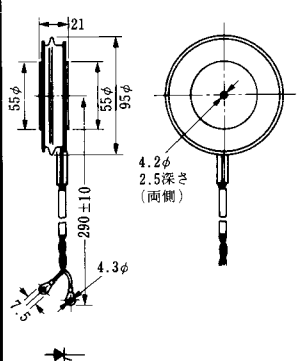
Unit in mm (inch)

H-15

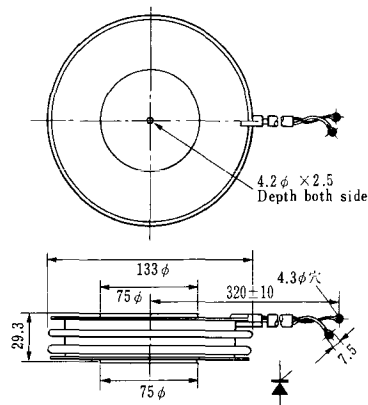


Unit in mm (inch)

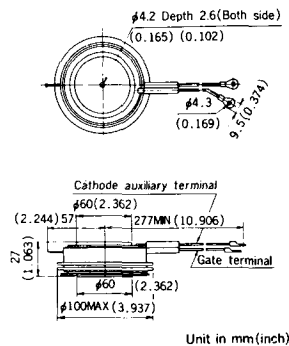
H-16



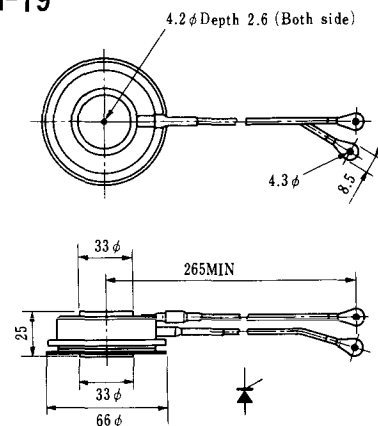
H-17



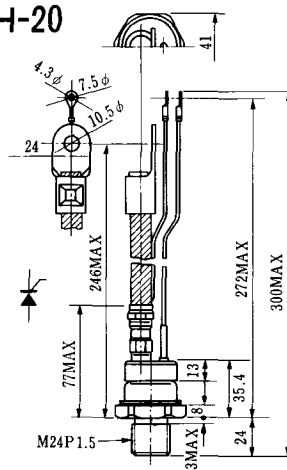
H-18



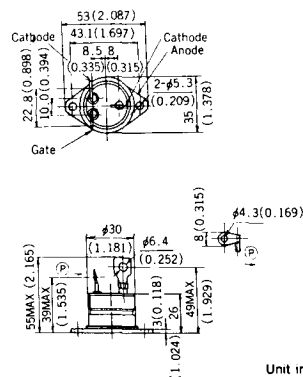
H-19



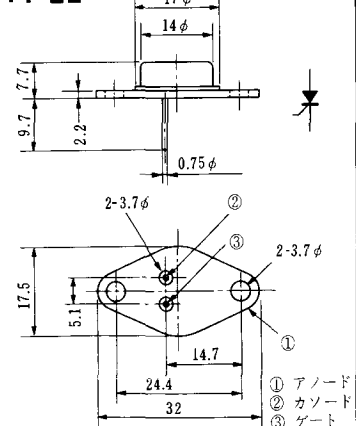
H-20



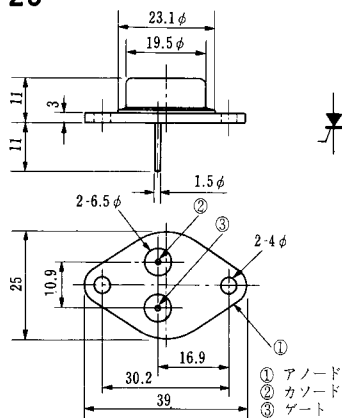
H-21



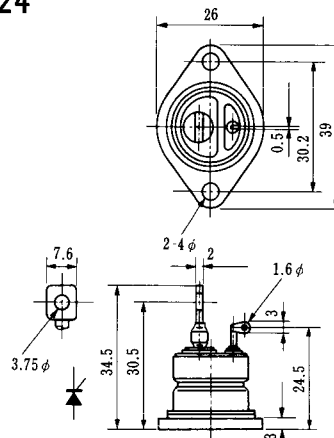
H-22



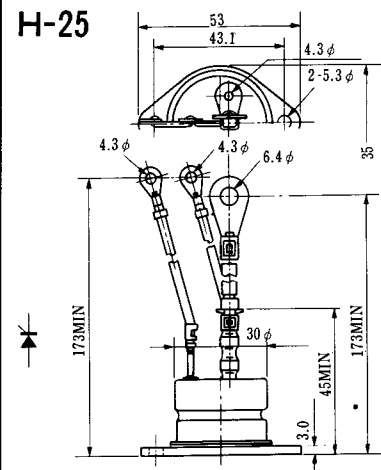
H-23



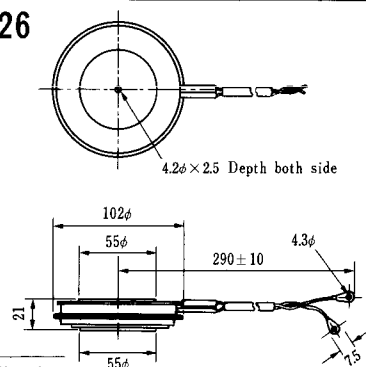
H-24



H-25

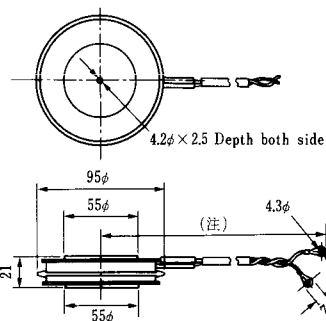


H-26



Type	Direction of polarity
CA12	

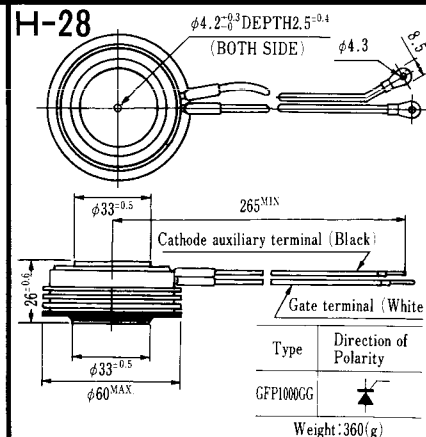
H-27



Type	Direction of polarity
CF11V	

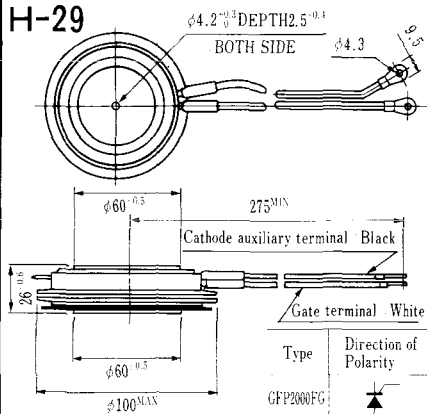
(注) CC11V: 400 ± 10
CF11V: 250 ± 10

H-28



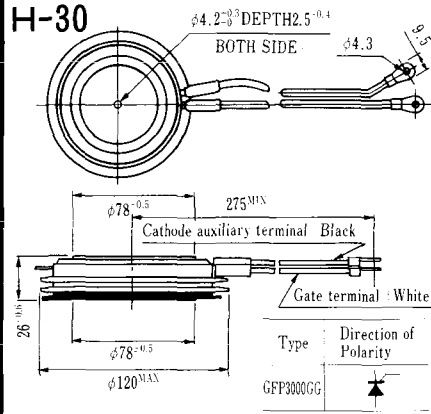
Note: The thickness is a dimension in press at the rated mounting force.

H-29



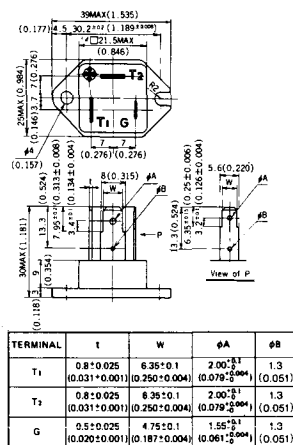
Note : The thickness is a dimension in press at the rated mounting force.

H-30



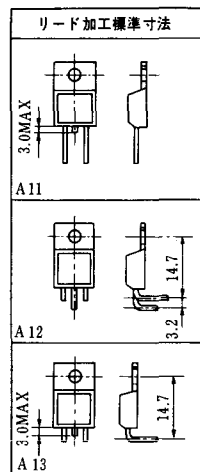
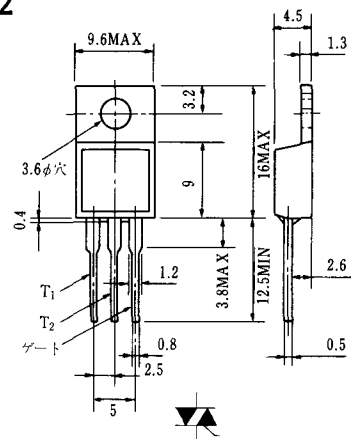
Note : The thickness is a dimension in press at the rated mounting force.

HT-1

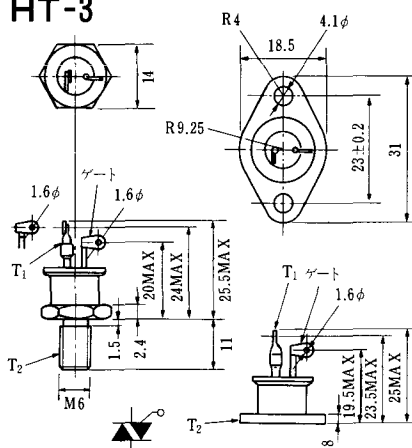


Unit in mm (inch)

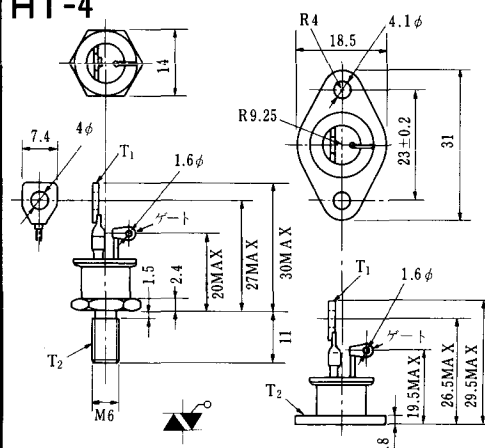
HT-2



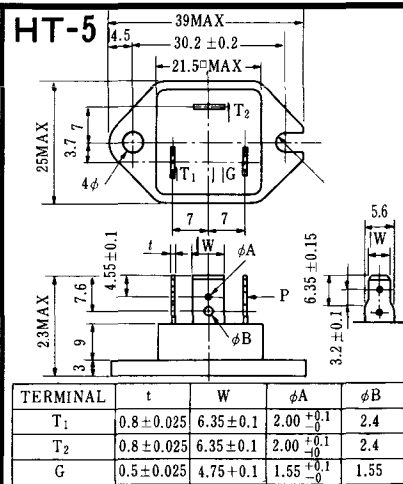
HT-3



HT-4

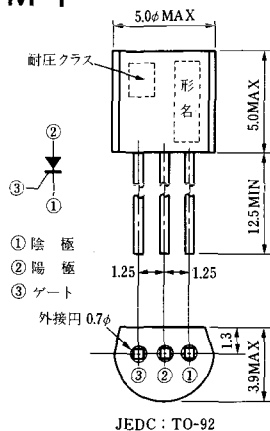


HT-5

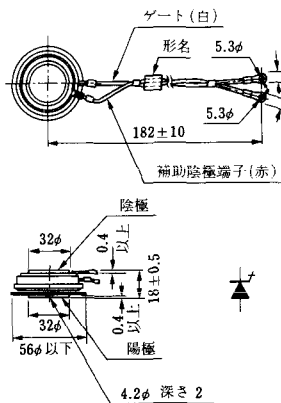


《寸法図単位：mm》

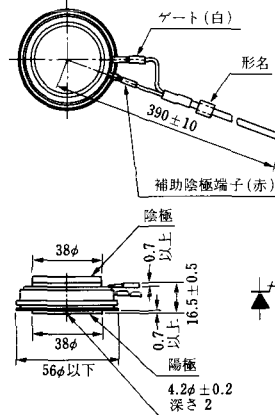
M-1



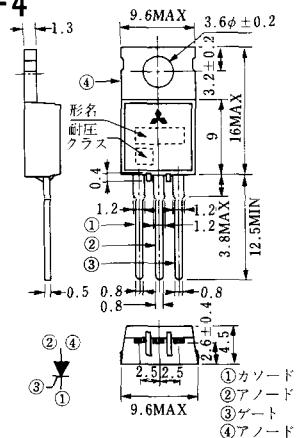
M-2



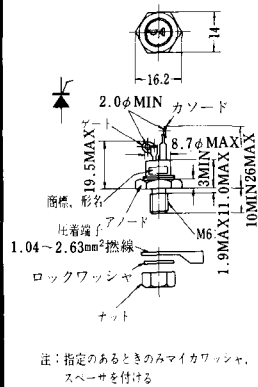
M-3



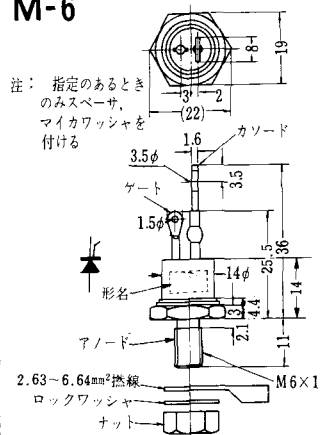
M-4



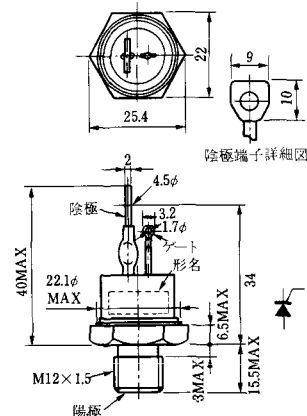
M-5



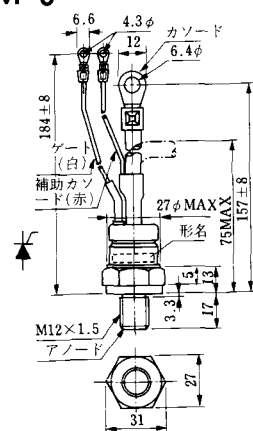
M-6



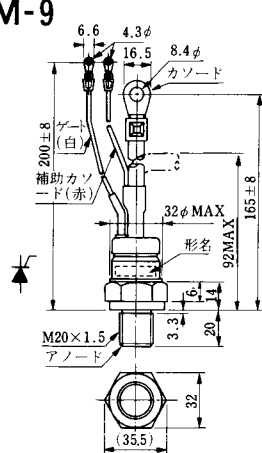
M-7



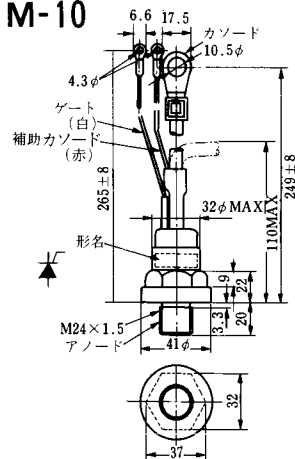
M-8



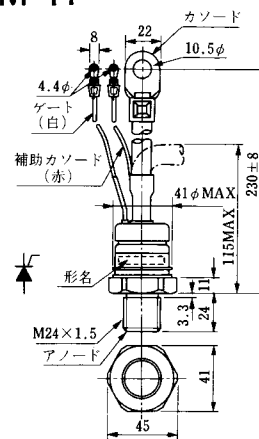
M-9



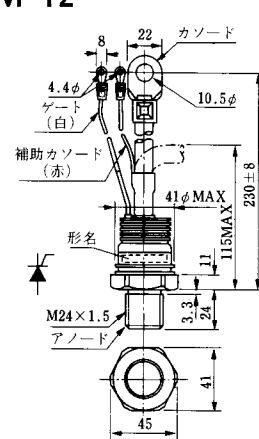
M-10



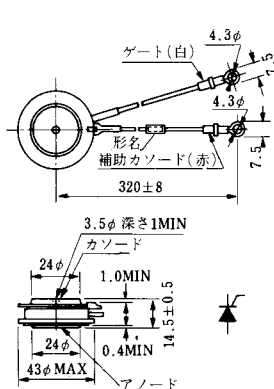
M-11



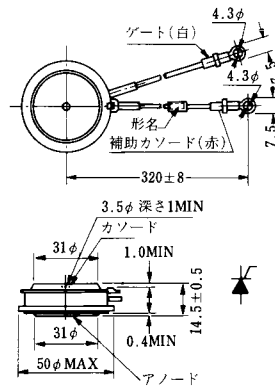
M-12



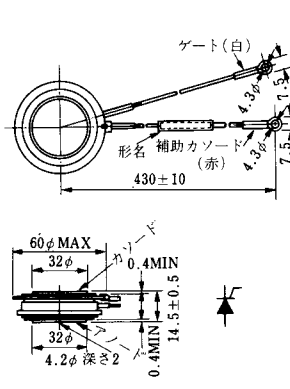
M-13



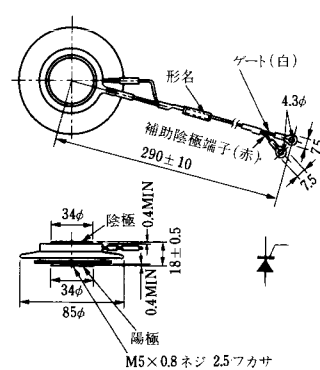
M-14



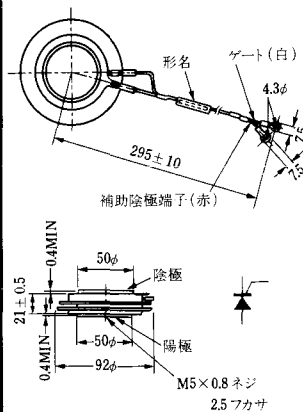
M-15



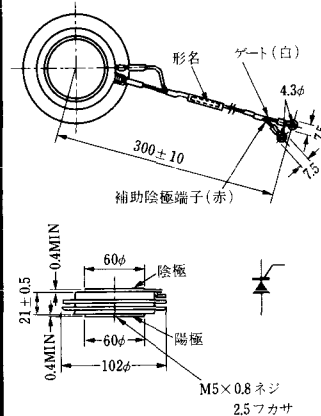
M-16



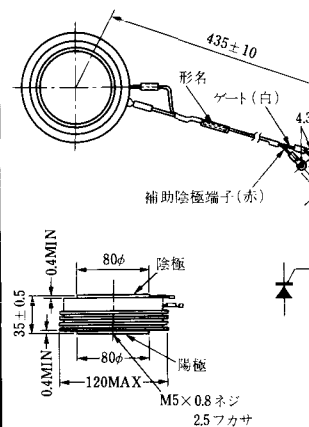
M-17



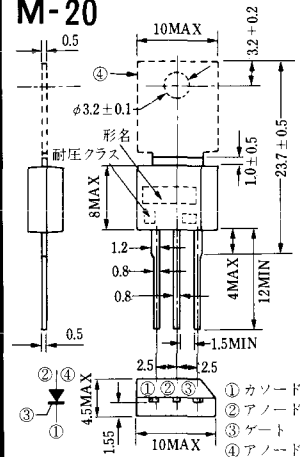
M-18



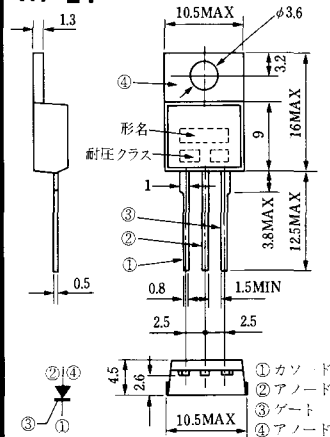
M-19



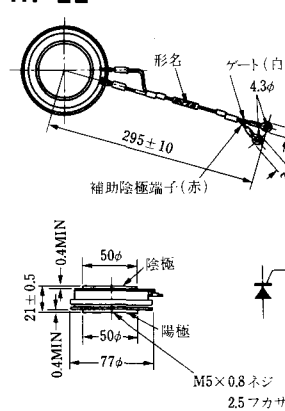
M-20



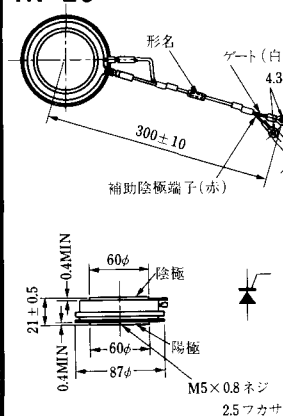
M-21



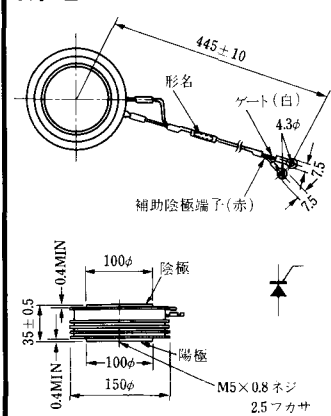
M-22



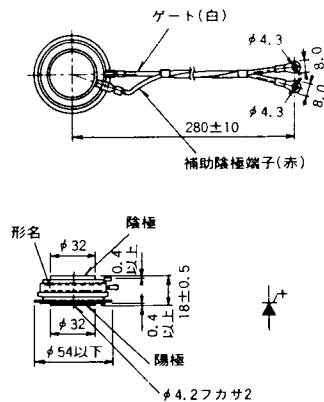
M-23



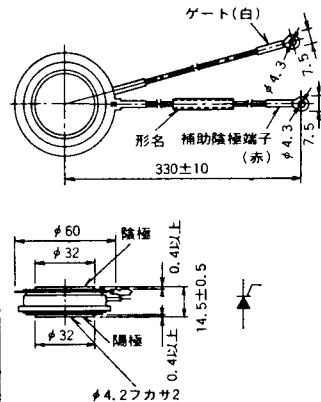
M-24



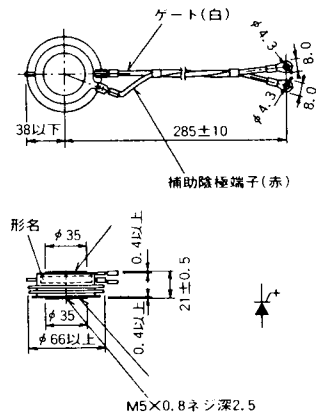
M-25



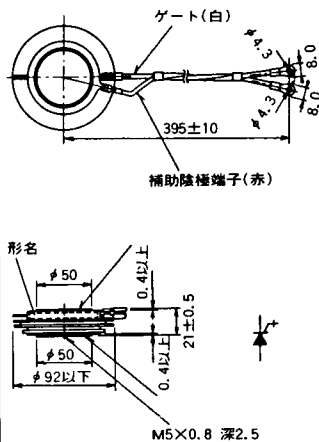
M-26



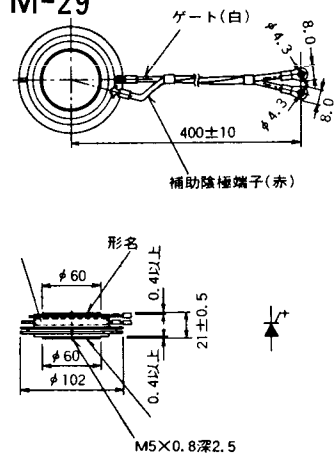
M-27



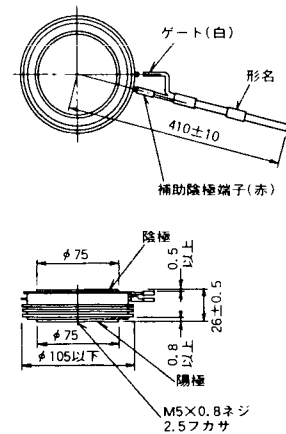
M-28



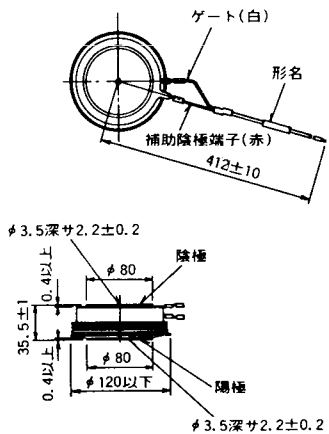
M-29



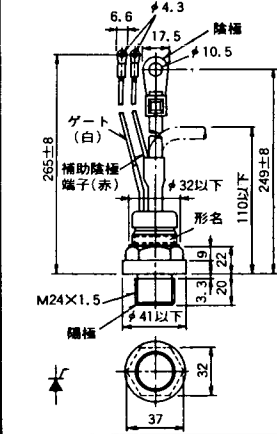
M-30



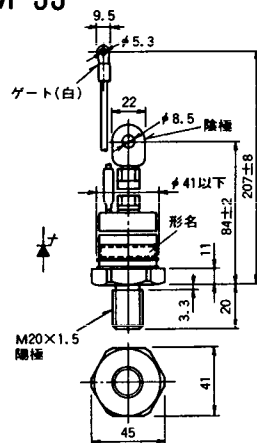
M-31



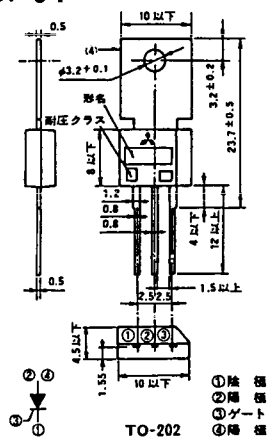
M-32



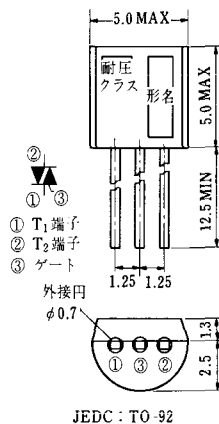
M-33



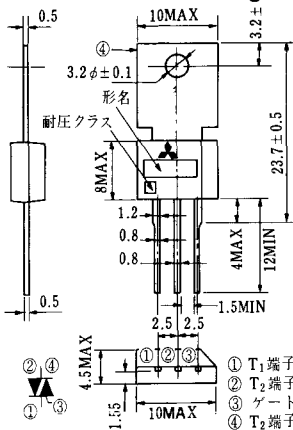
M-34



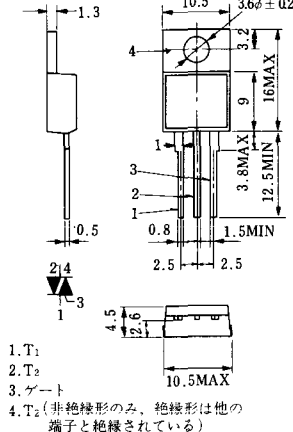
MT-1



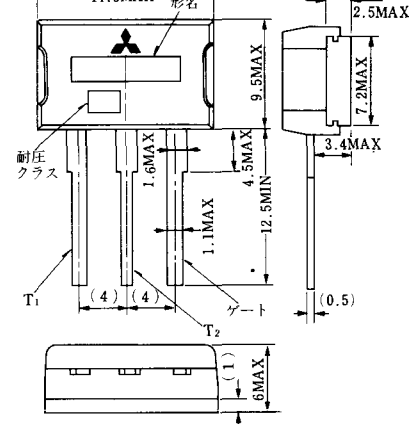
MT-2



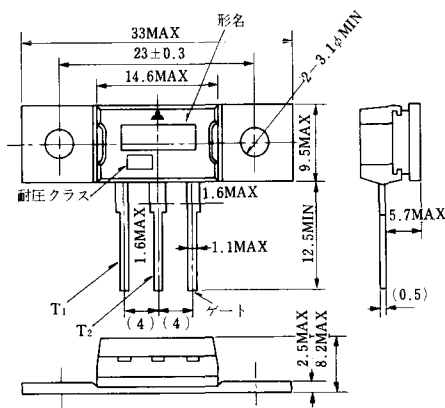
MT-3



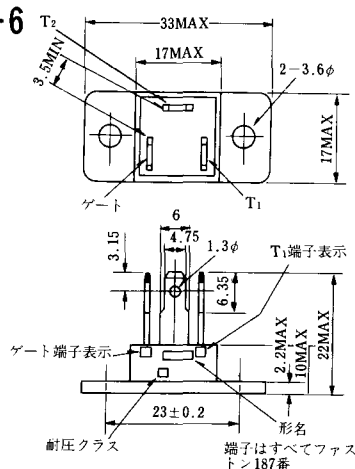
MT-4



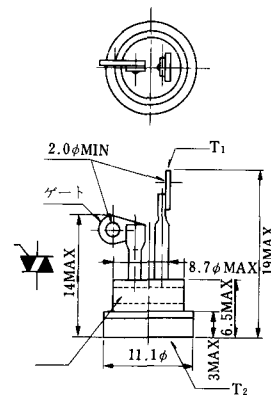
MT-5



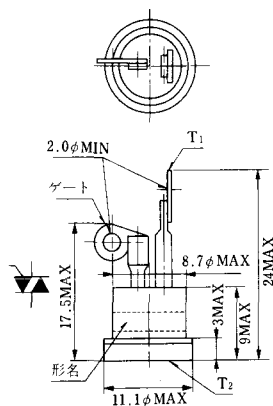
MT-6



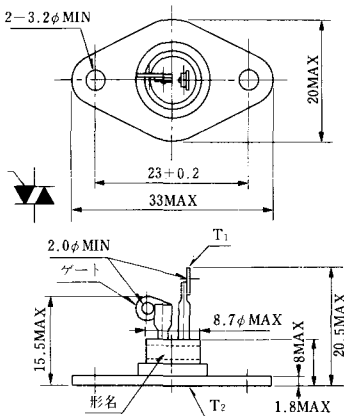
MT-7



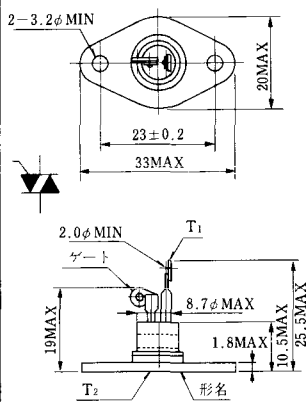
MT-8



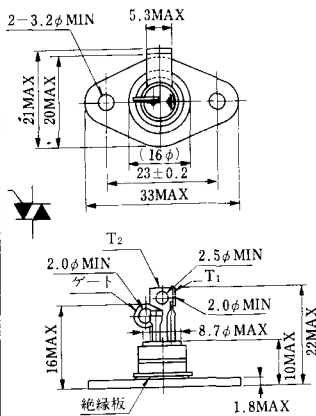
MT-9



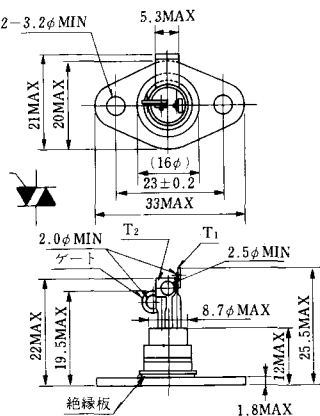
MT-10



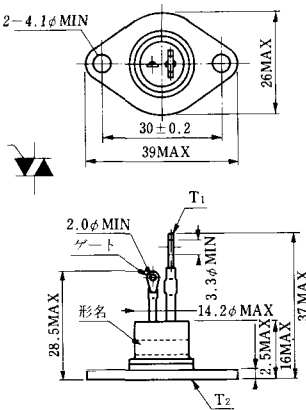
MT-11



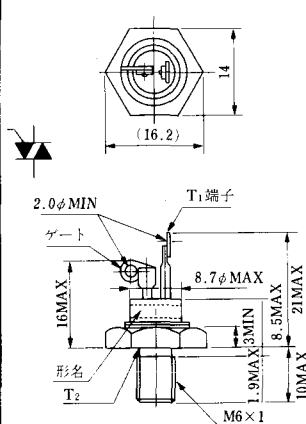
MT-12



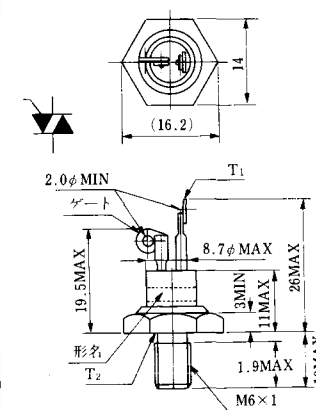
MT-13



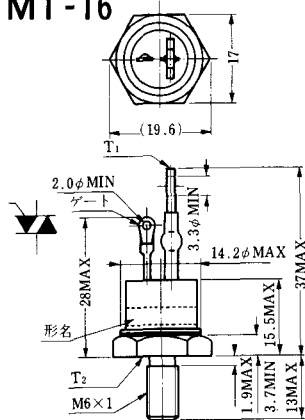
MT-14



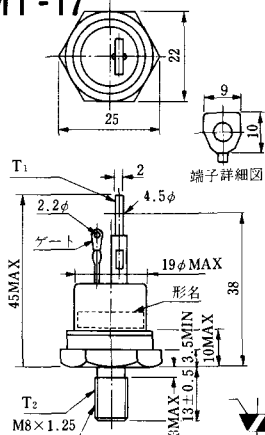
MT-15



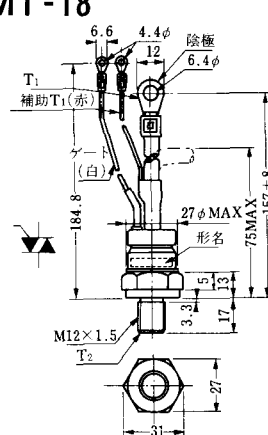
MT-16



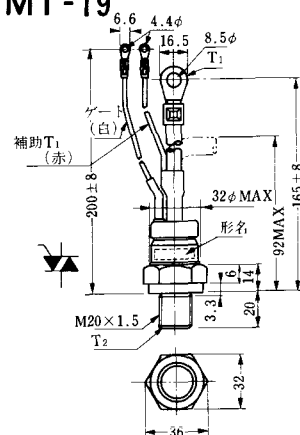
MT-17



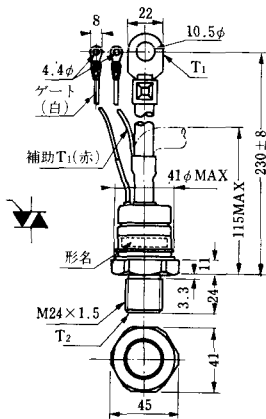
MT-18



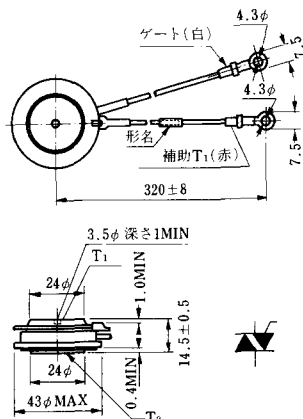
MT-19



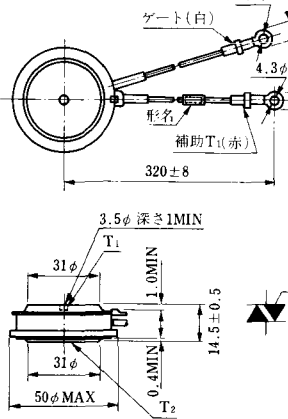
MT-20



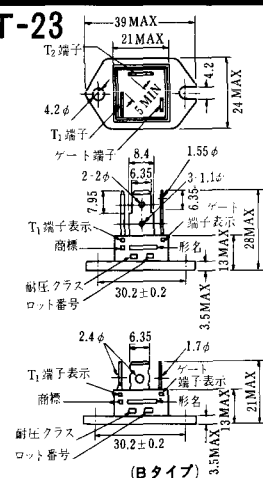
MT-21



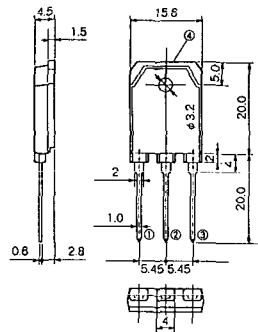
MT-22



MT-23



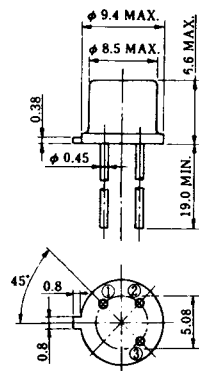
MT-24



TO - 3P

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

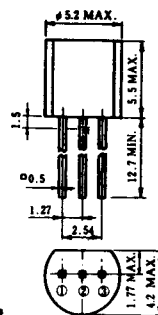
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

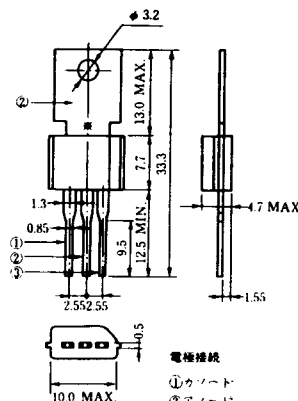
N-2



電極接続

- ① ヤード
- ② アノード
- ③ カソード

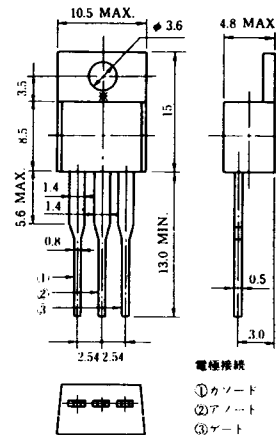
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

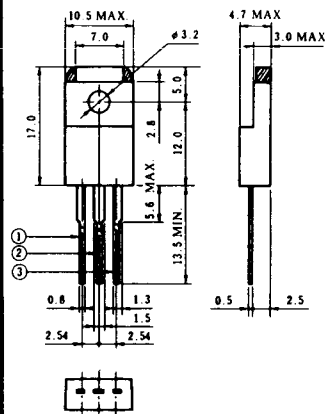
N-4



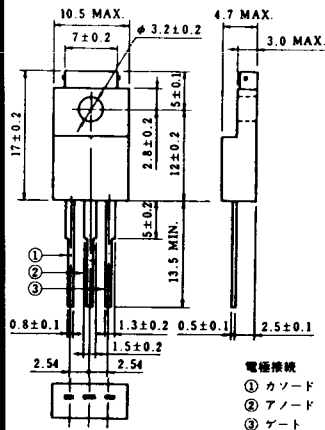
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



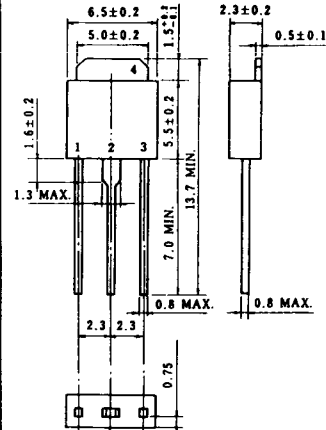
N-6



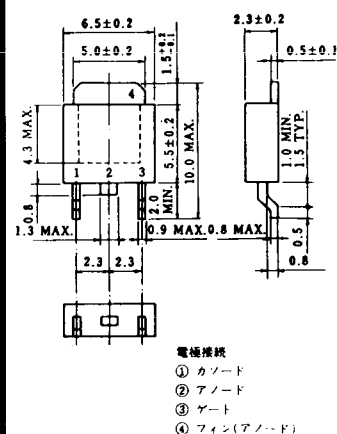
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



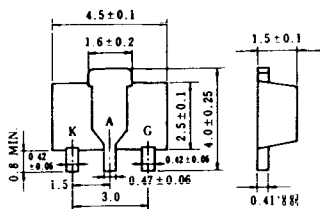
N-8



電極接続

- ① カソード
- ② アノード
- ③ ゲート
- ④ フィン(アノード)

N-9



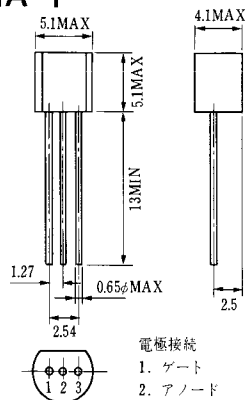
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

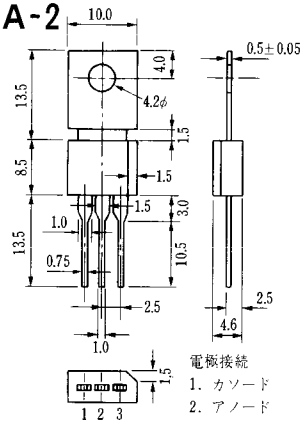


電極接続

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-3

NI-4

NI-5

NI-6

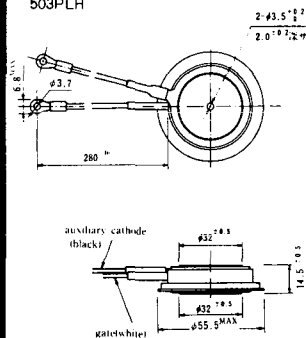
NI-7

NI-8

《寸法図単位:mm》

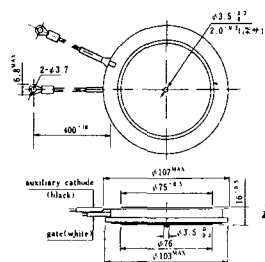
NI-16

503PLF
503PLH



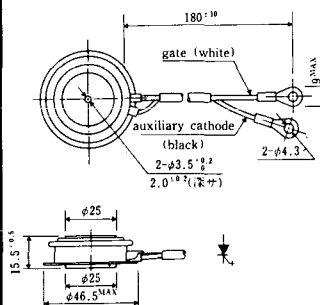
NI-17

3003PA



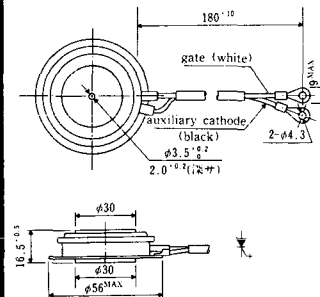
NI-18

353PGA「E



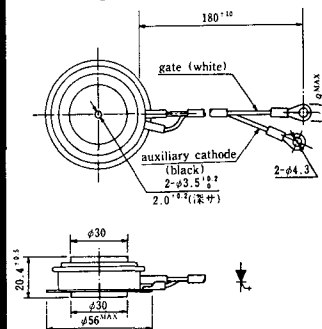
NI-19

603PGA, 603PGA「A, 803PGA



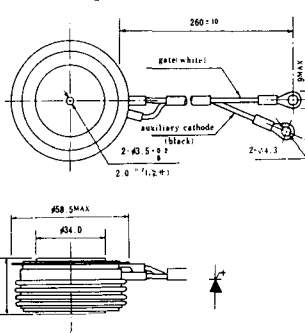
NI-20

603PGA「E



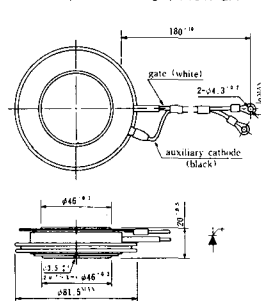
NI-21

1001PGB「E



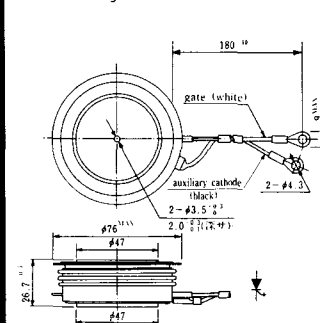
NI-22

1201PGA, 1201PGA「A, 1401PGA



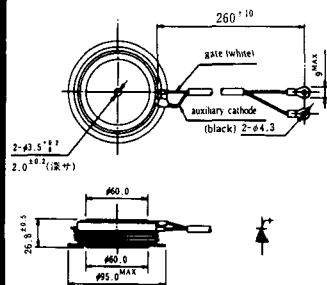
NI-23

1201PGA「E



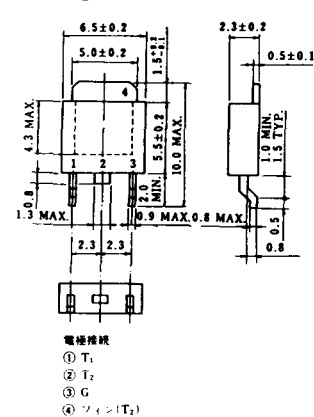
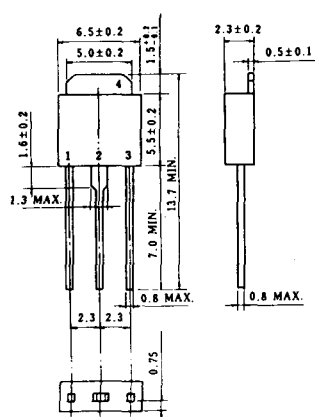
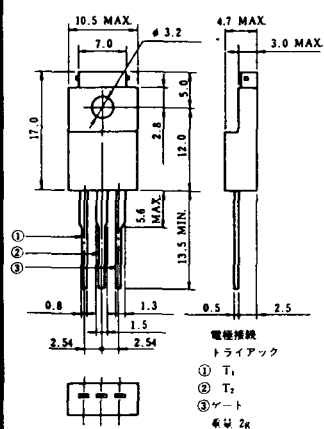
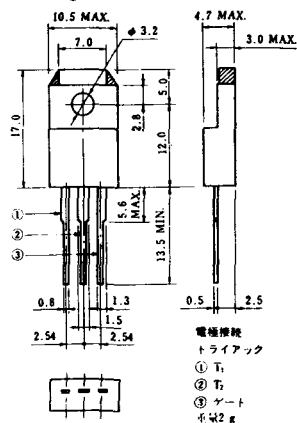
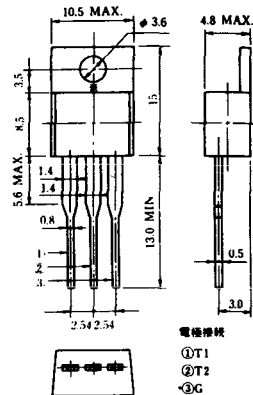
NI-24

2001PGB[®] JE

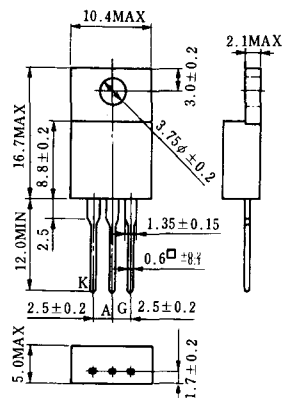


NI-25

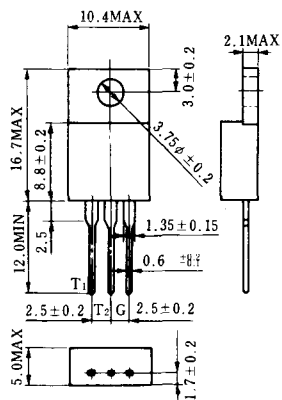
NI-26



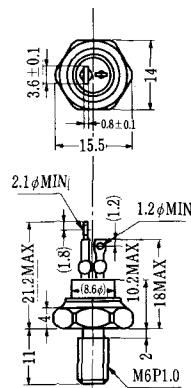
S-1



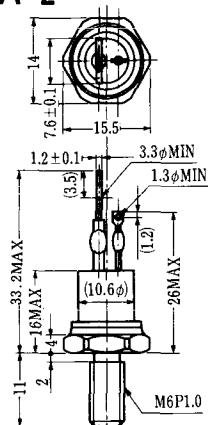
ST-1



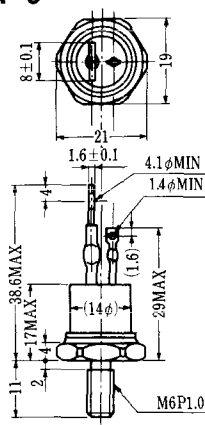
SA-1



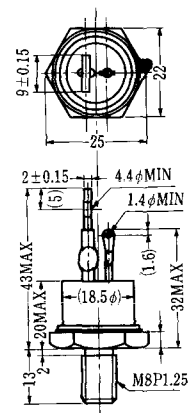
SA-2



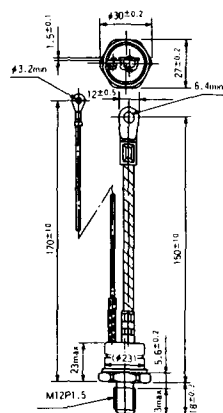
SA-3



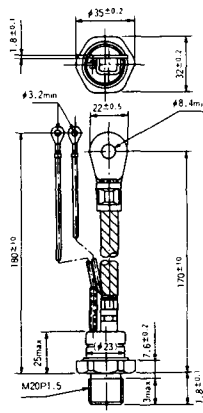
SA-4



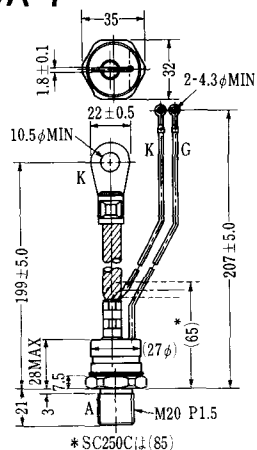
SA-5



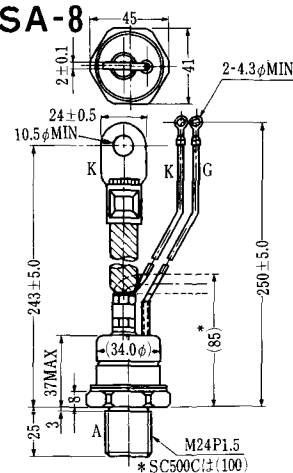
SA-6



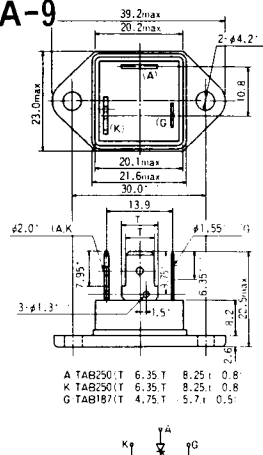
SA-7



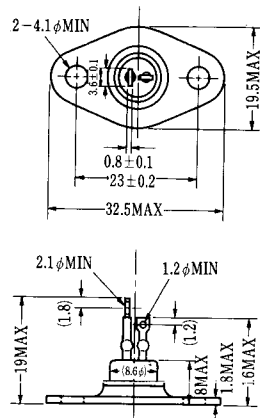
SA-8



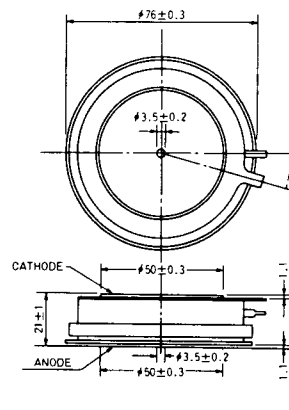
SA-9



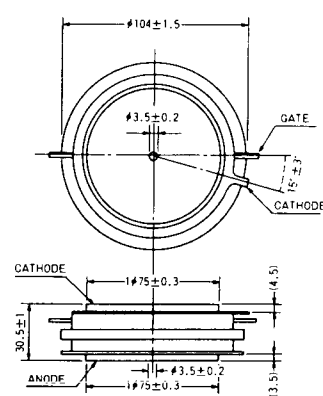
SA-10



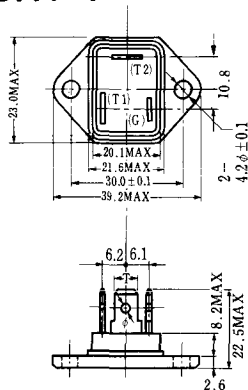
SA-11



SA-12

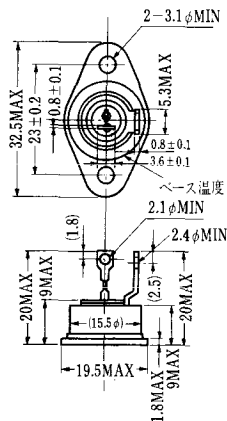


SAT-1

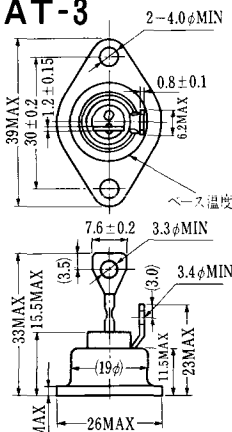


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

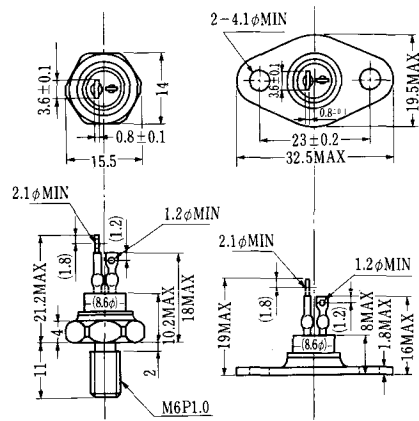
SAT-2



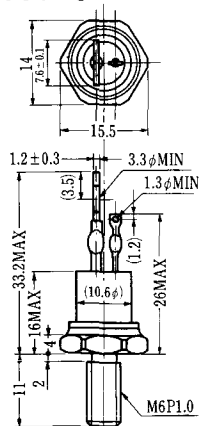
SAT-3



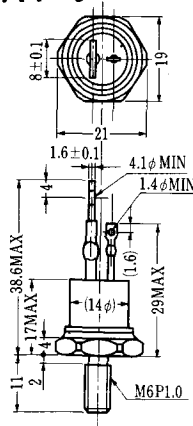
SAT-4



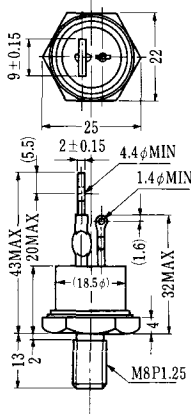
SAT-5



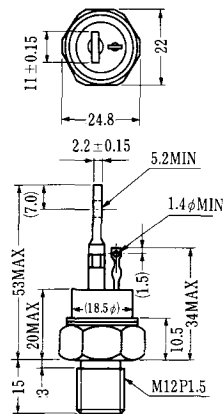
SAT-6



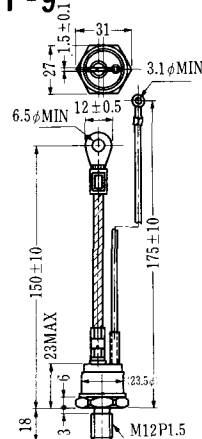
SAT-7



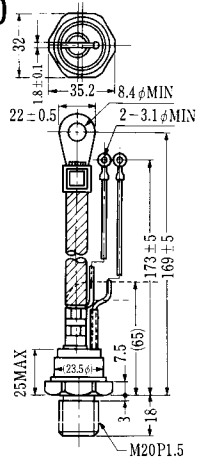
SAT-8



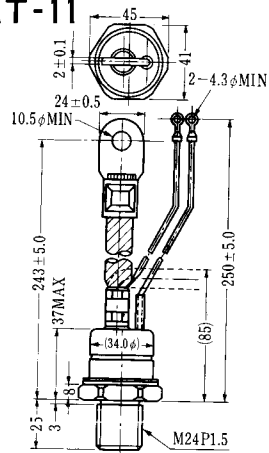
SAT-9.



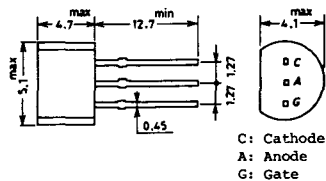
SAT-10



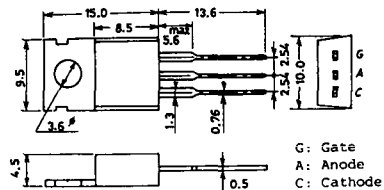
SAT-11



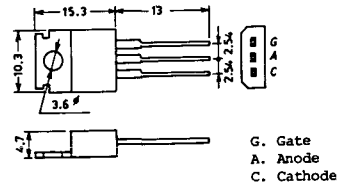
SY-1(1096A)



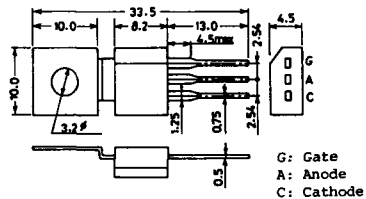
SY-2(1151)



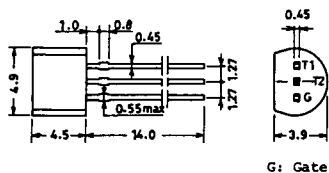
SY-3(1104)



SY-4(1150)

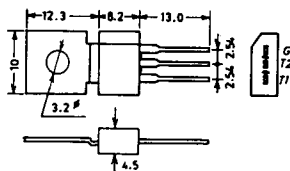


1097A

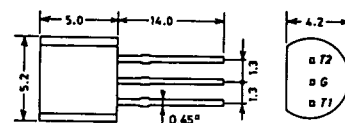


G: Gate

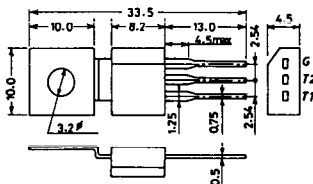
1102



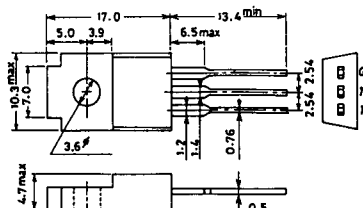
1141



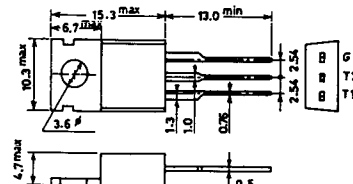
1142



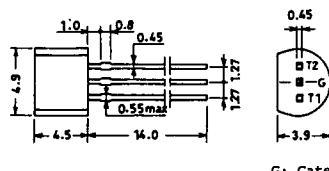
1144



1155

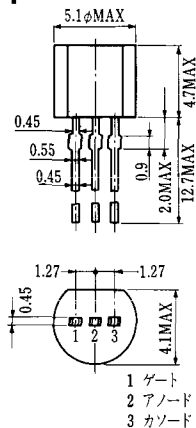


1192A

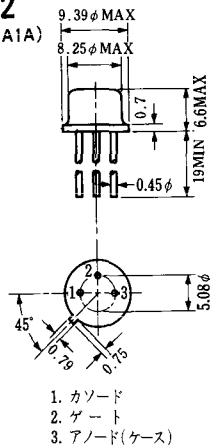


G: Gate

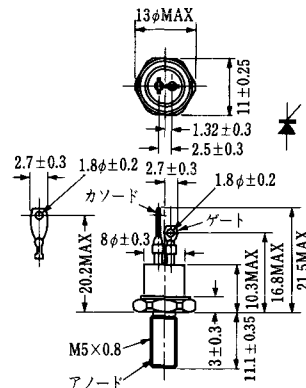
T-1 (13-5A1A)



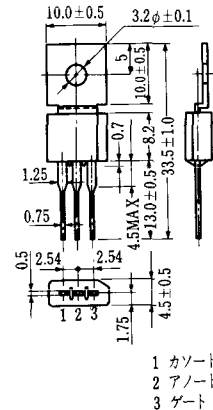
T-2 (13-8A1A)



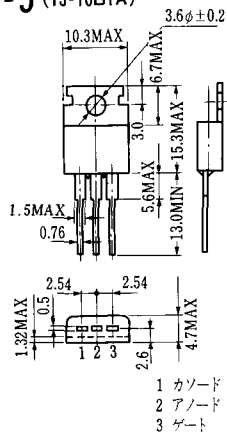
T-3 (13-8C1A)



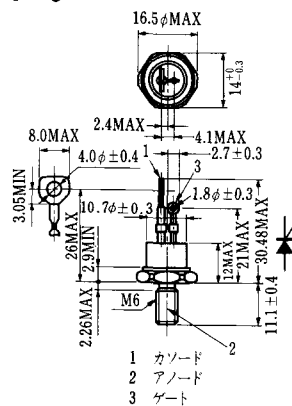
T-4 (13-10A1A)



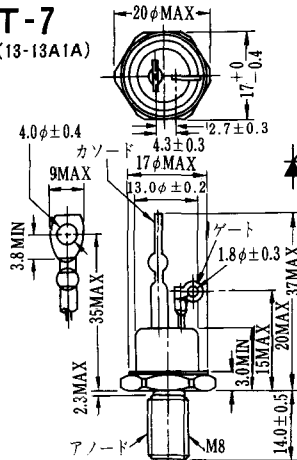
T-5 (13-10B1A)



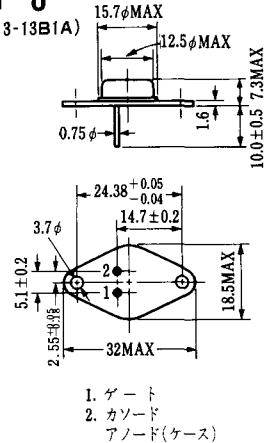
T-6 (13-11D1A)



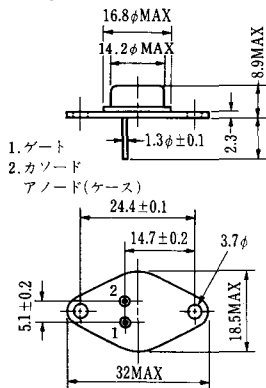
T-7 (13-13A1A)



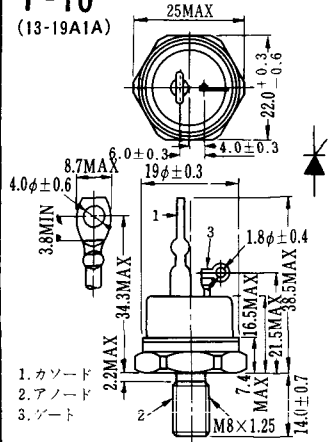
T-8 (13-13B1A)



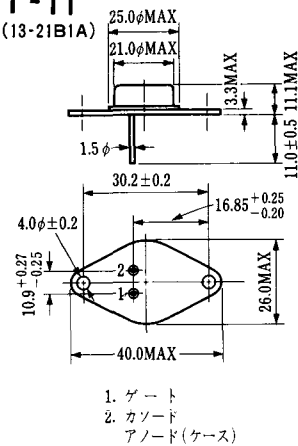
T-9 (13-14A1A)



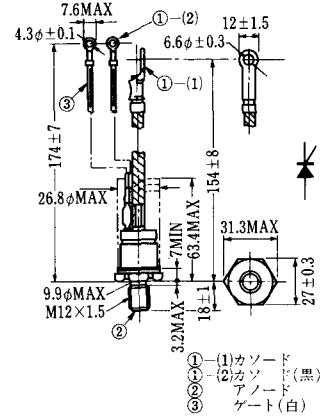
T-10 (13-19A1A)



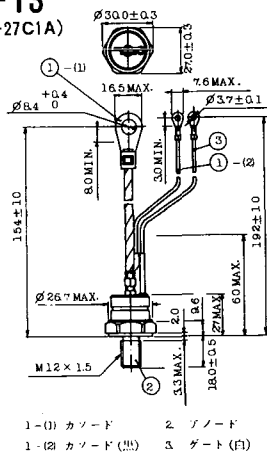
T-11 (13-21B1A)



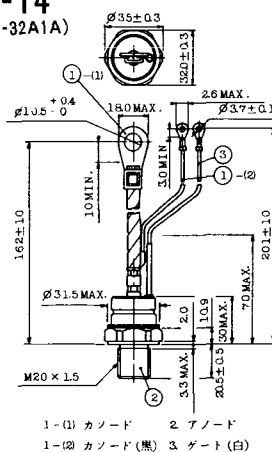
T-12 (13-27B1B)



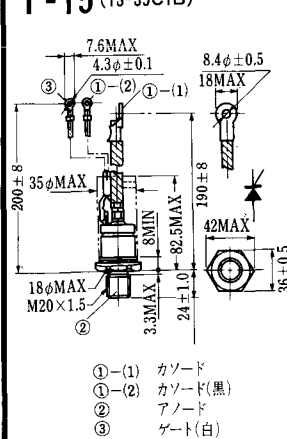
T-13 (13-27C1A)



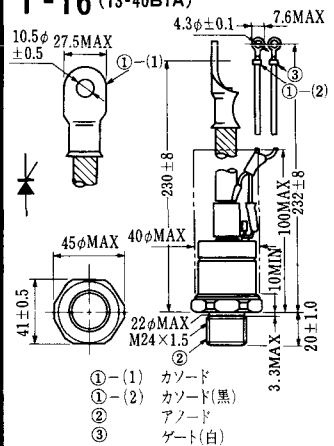
T-14 (13-32A1A)



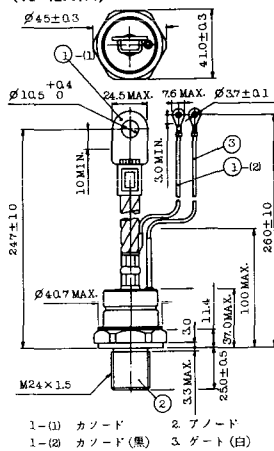
T-15 (13-35C1B)



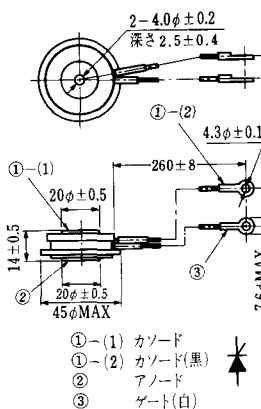
T-16 (13-40B1A)



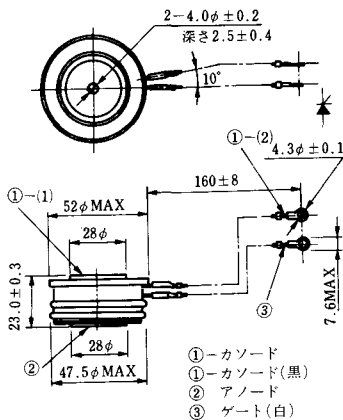
T-17 (13-42A1A)



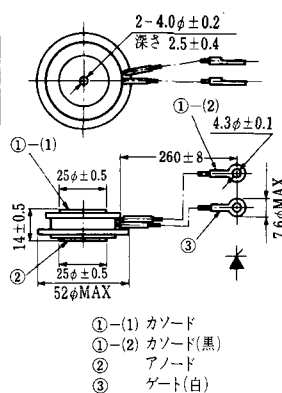
T-18 (13-45D1A)



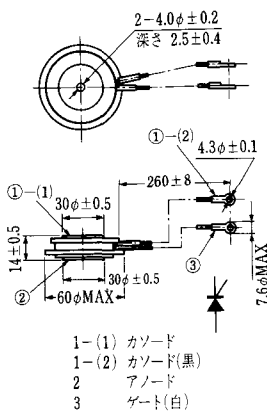
T-19 (13-52B1A)



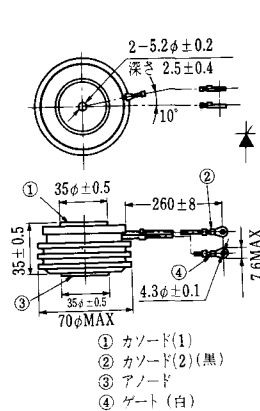
T-20 (13-52C1A)



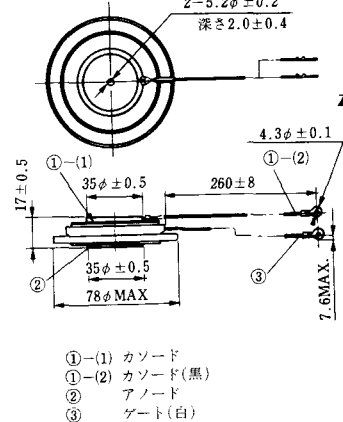
T-21 (13-60A1A)



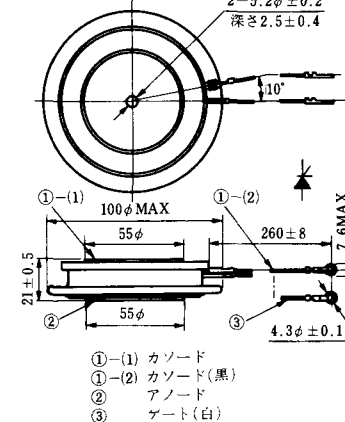
T-22 (13-70C1A)



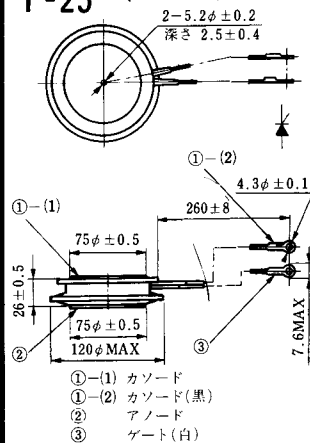
T-23 (13-78A1A)



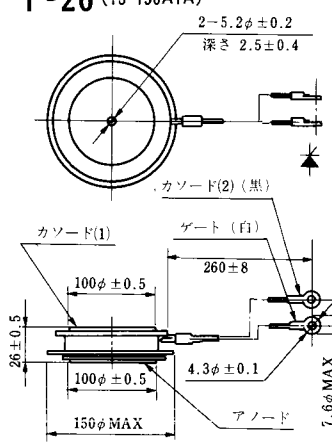
T-24 (13-100C1A)



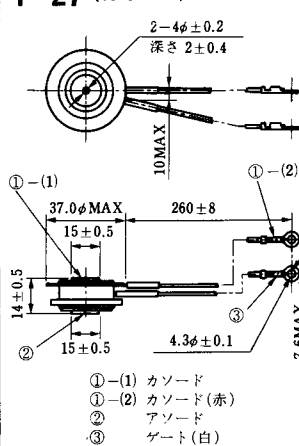
T-25 (13-120A2A)



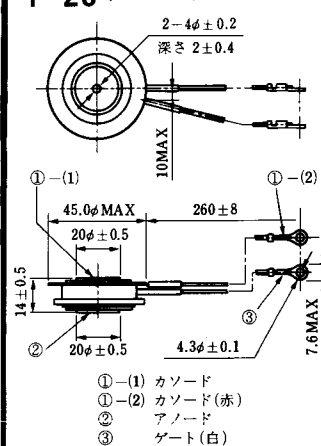
T-26 (13-150A1A)



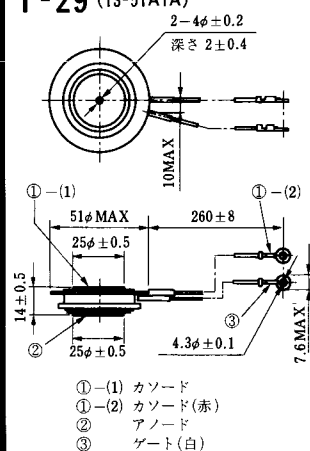
T-27 (13-37A1A)



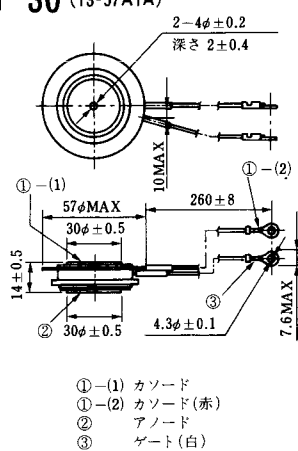
T-28 (13-45E1A)



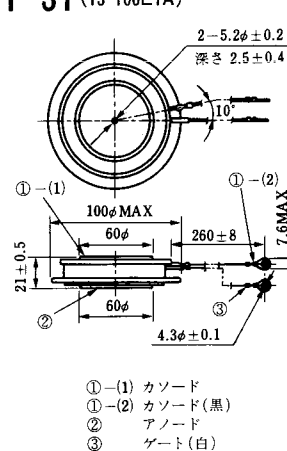
T-29 (13-51A1A)



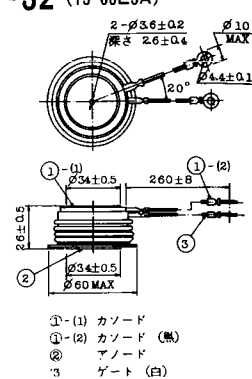
T-30 (13-57A1A)



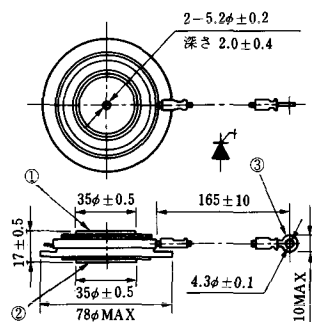
T-31 (13-100E1A)



T-32 (13-60E3A)

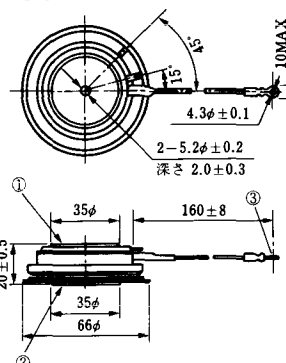


T-33 (13-78B1A)



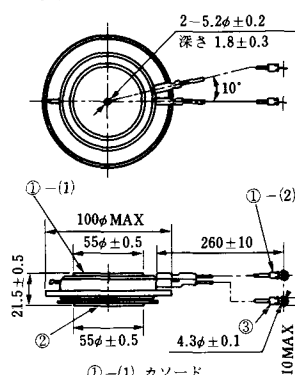
- ① カソード
② アノード
③ ゲート

T-34 (13-66A1A)



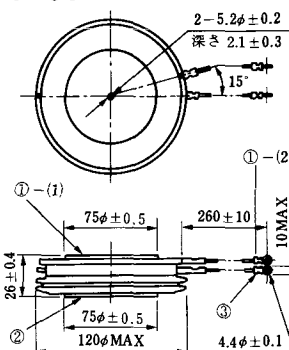
- ① カソード
② アノード
③ ゲート

T-35 (13-100D1A)



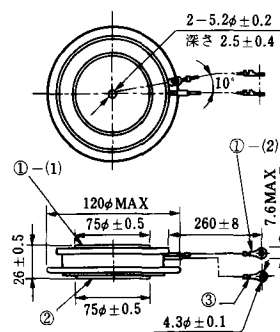
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-36 (13-120E1A)



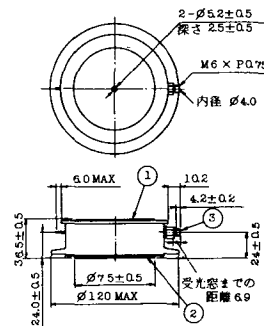
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-37 (13-120A1A)



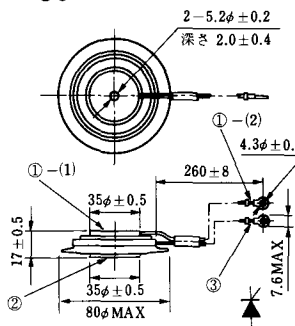
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-38 (13-120C1A)



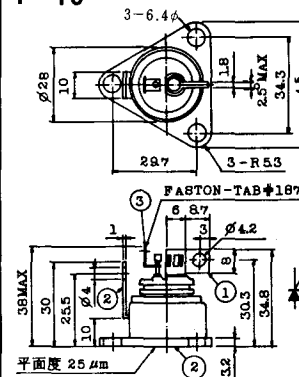
- ① カソード
② アノード
③ ゲート

T-39 (13-80B1A)



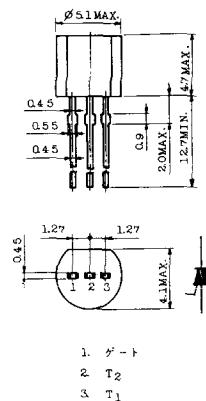
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-40 (13-28A1A)

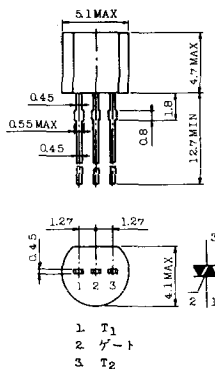


1. カソード
2. アノード
3. ゲート

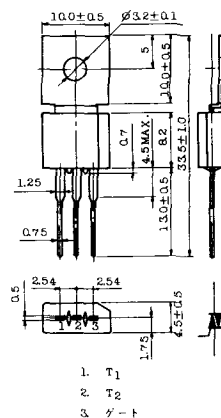
TT-1



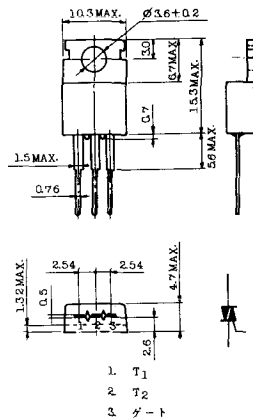
TT-2



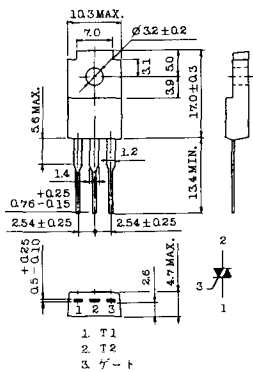
TT-3



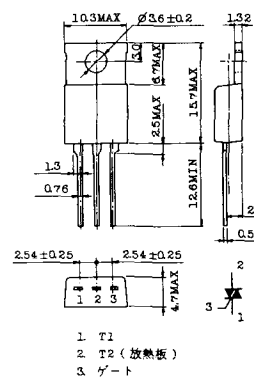
TT-4



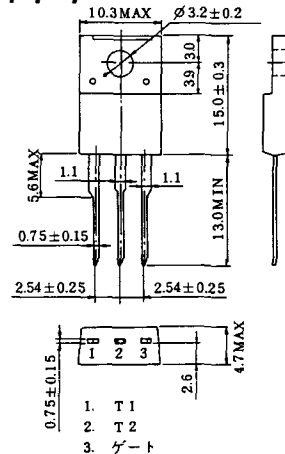
TT-5



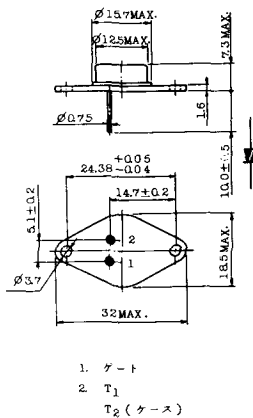
TT-6



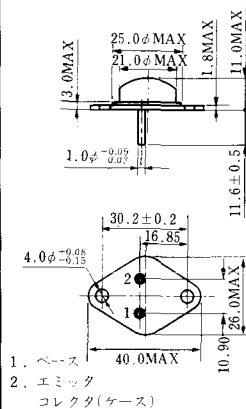
TT-7



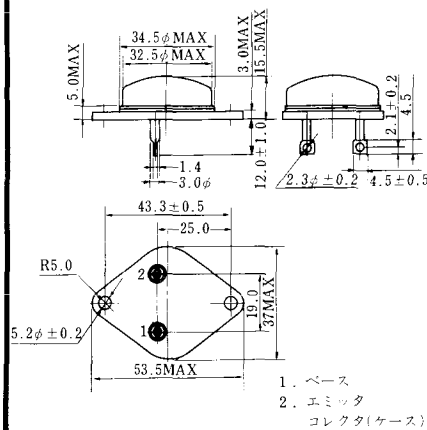
TT-8



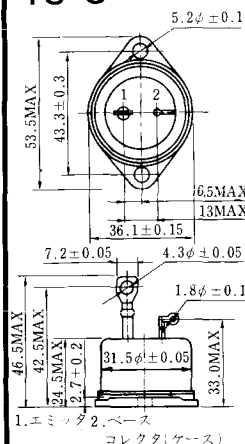
TS-1



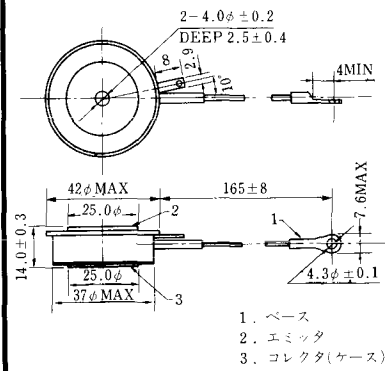
TS-2



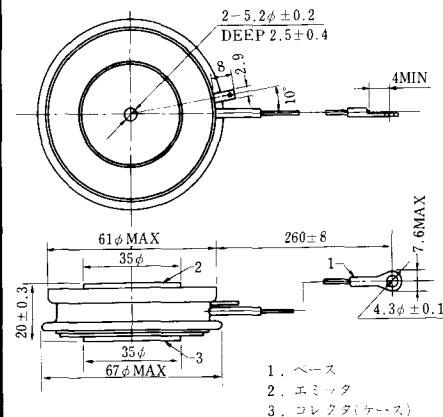
TS-3



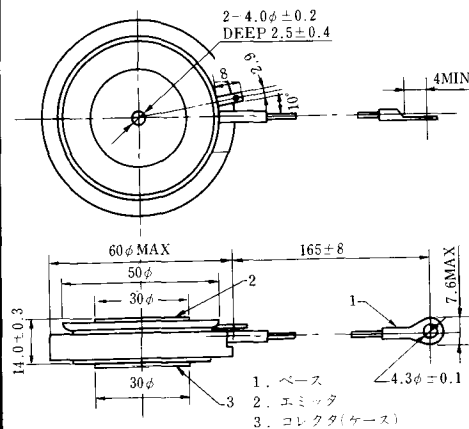
TS-4



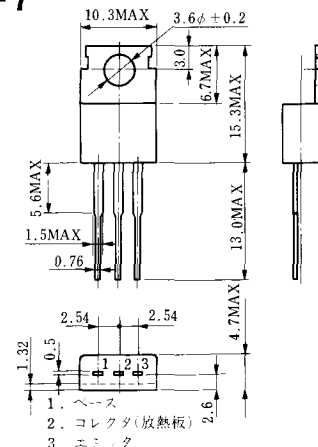
TS-5

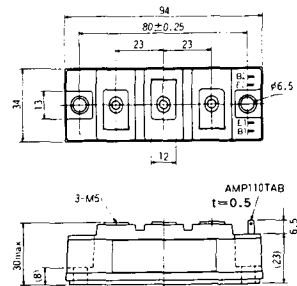
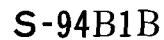
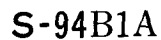
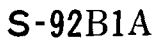
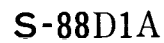
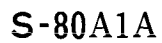


TS-6

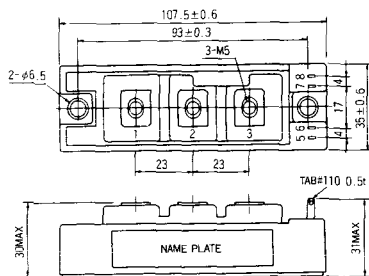


TS-7

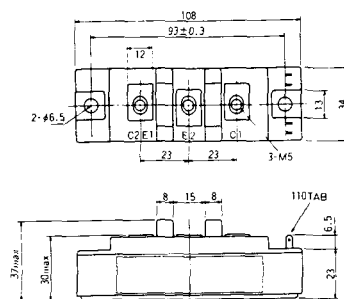




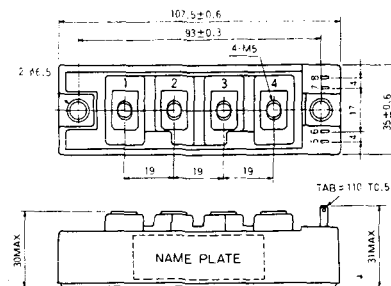
S-108B1A



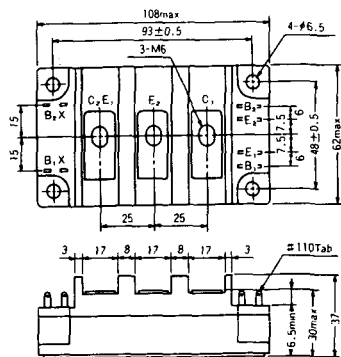
S-108B1B



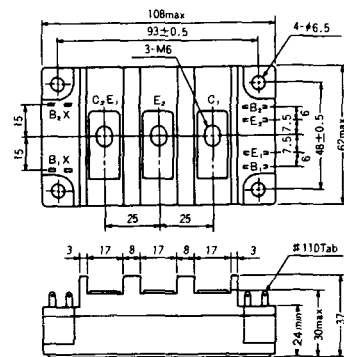
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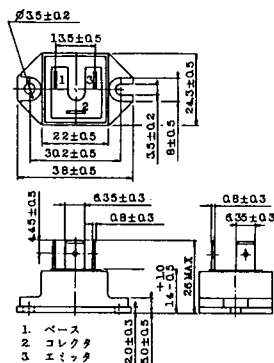
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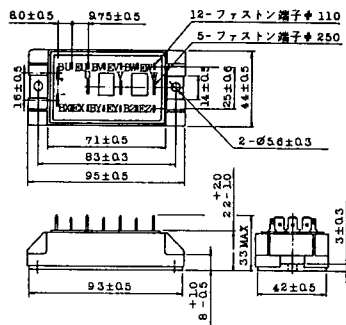
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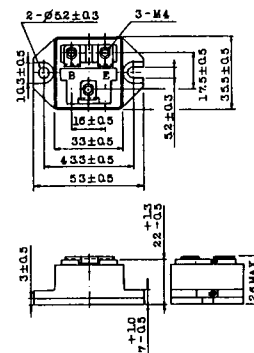
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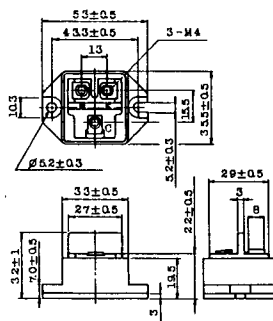
2-27A4A



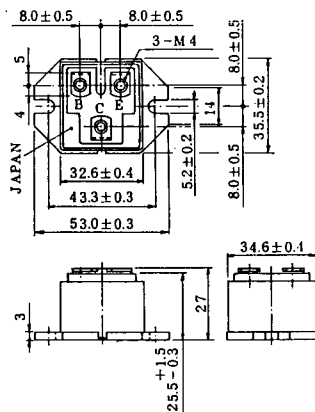
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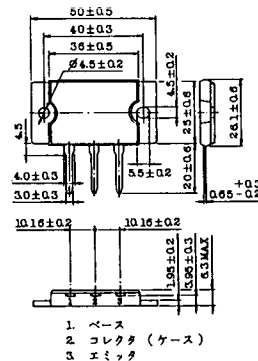
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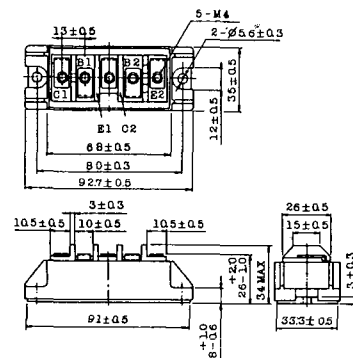
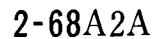
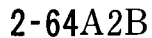
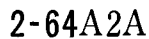
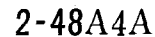
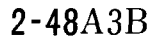


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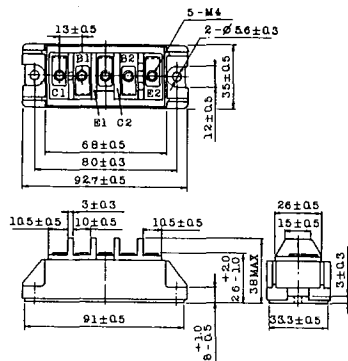


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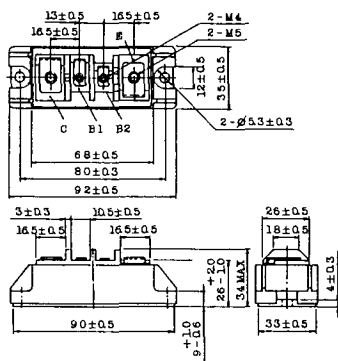




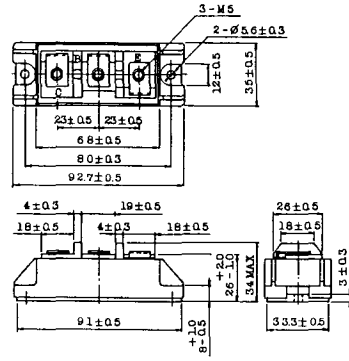
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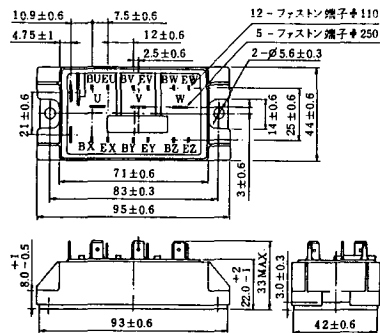
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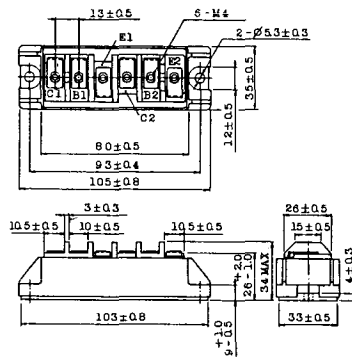
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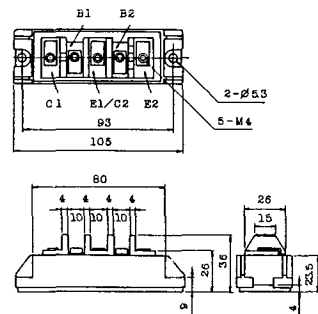
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2-80A1A

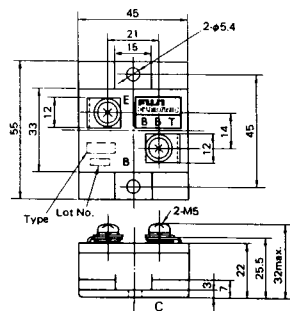


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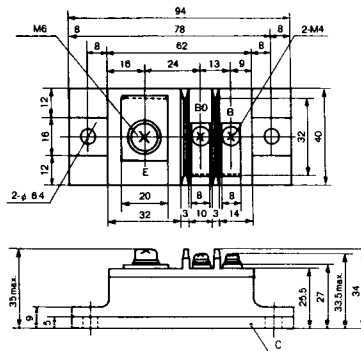
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BBTII
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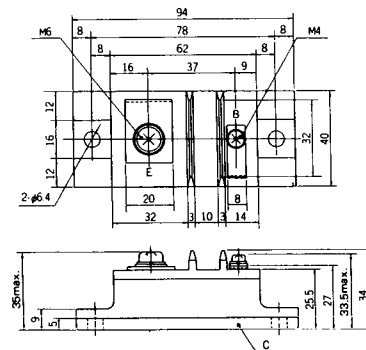
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BBTIII
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ETN36-030
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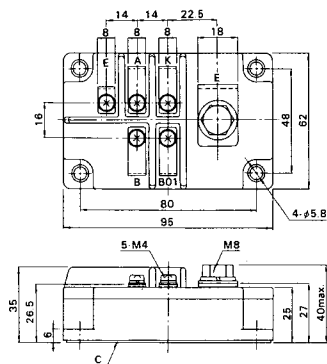
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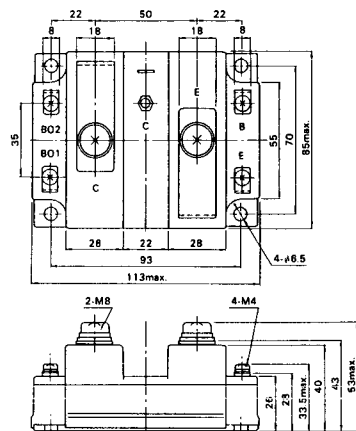


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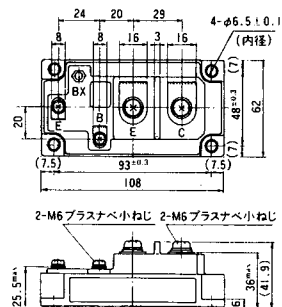
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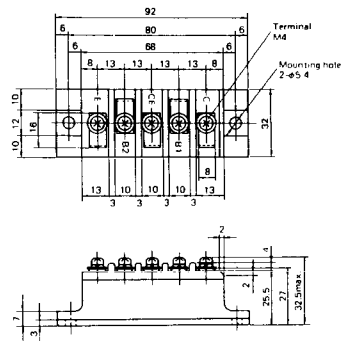
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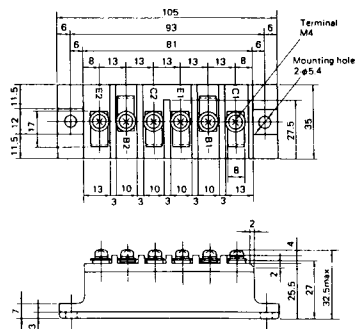
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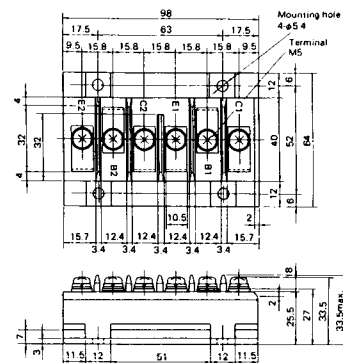
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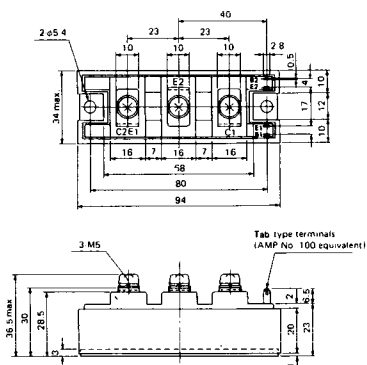
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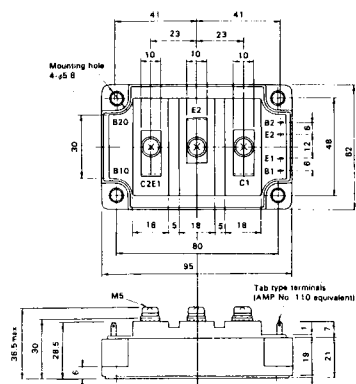
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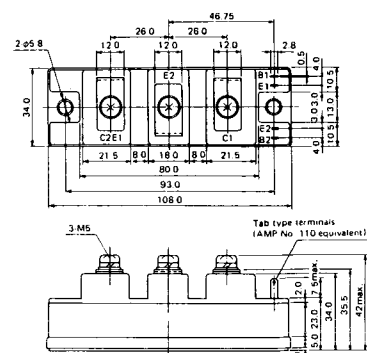
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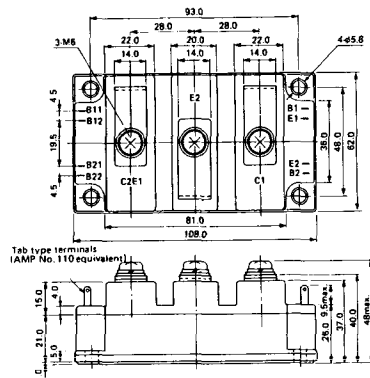
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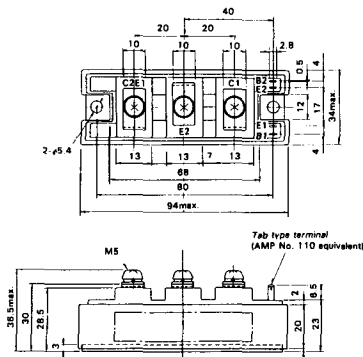
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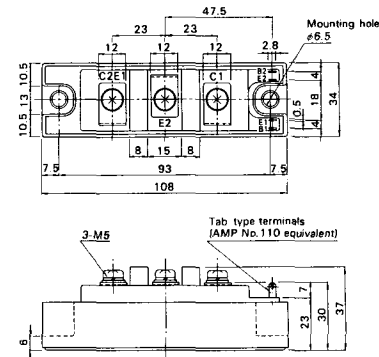
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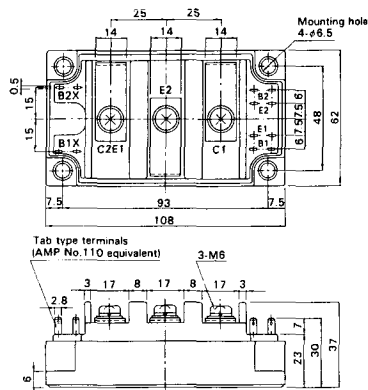
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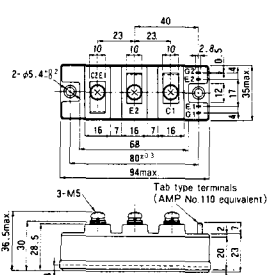
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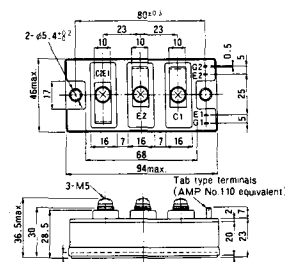
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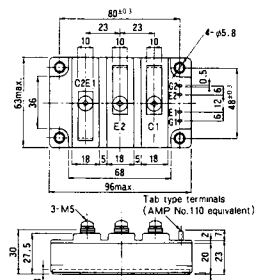
M-211



M-212

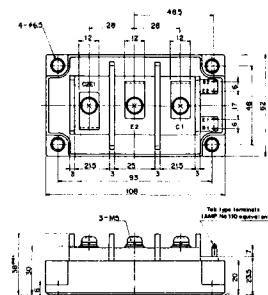


M-213

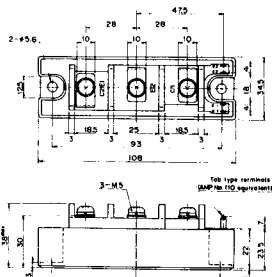


M-214

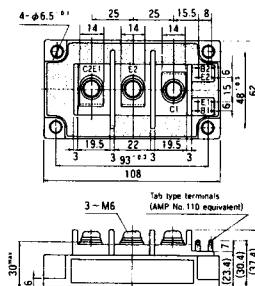
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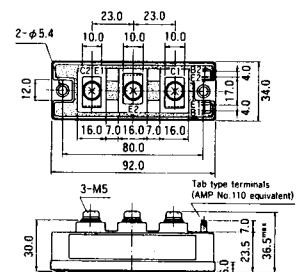
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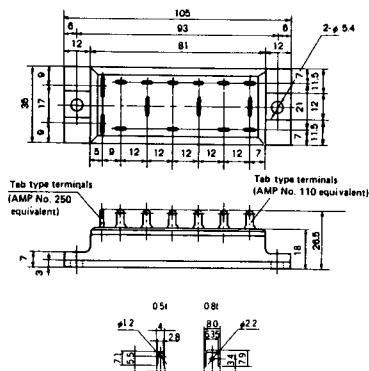
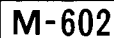


M-217

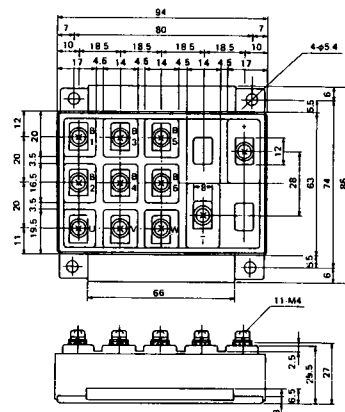


M-218

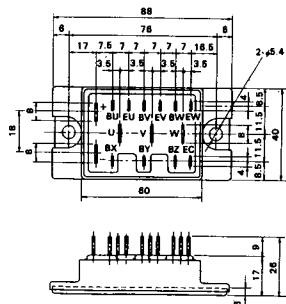




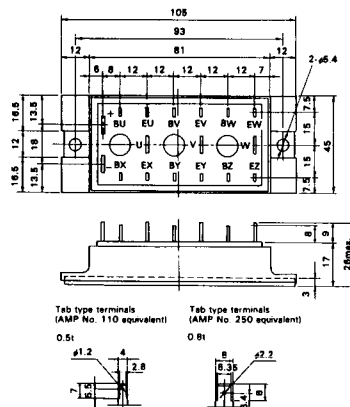
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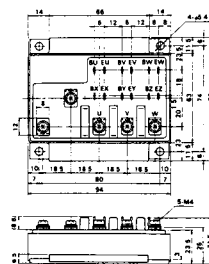
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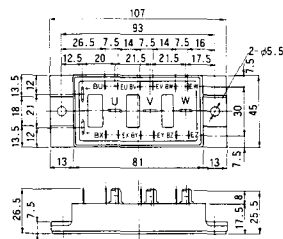
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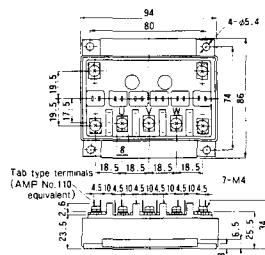
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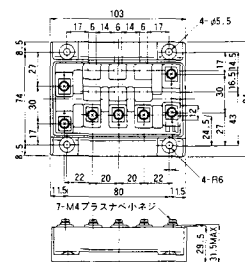
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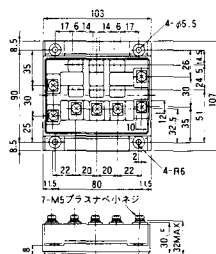
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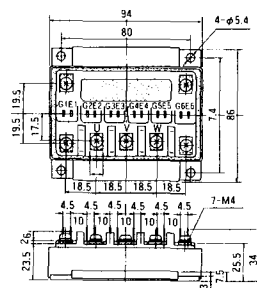
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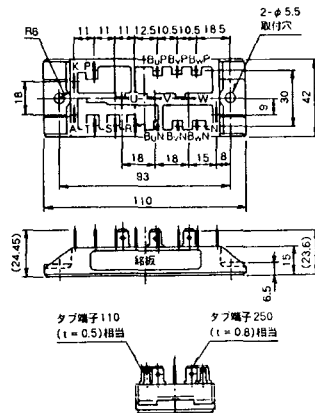
M-610



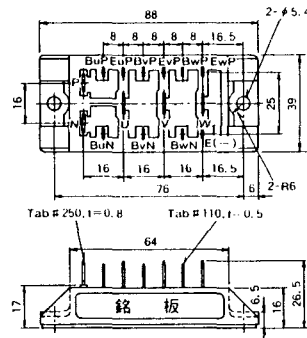
M-616



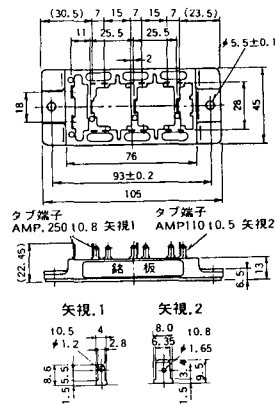
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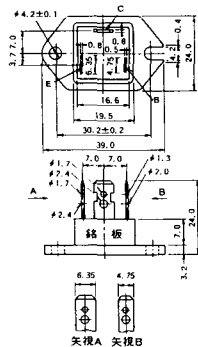
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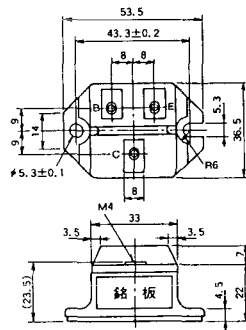
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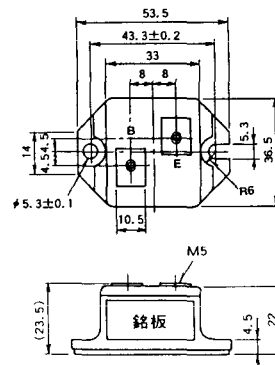
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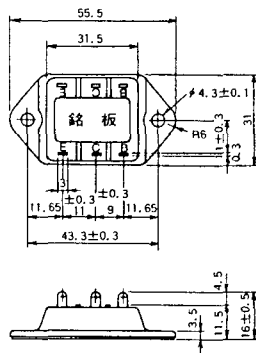
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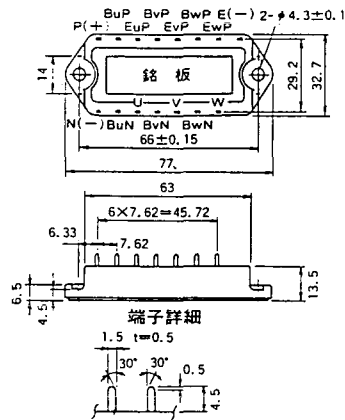
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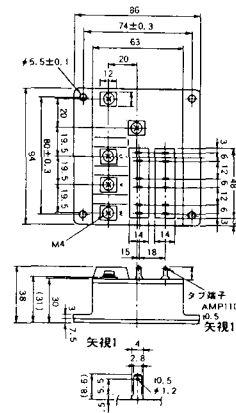
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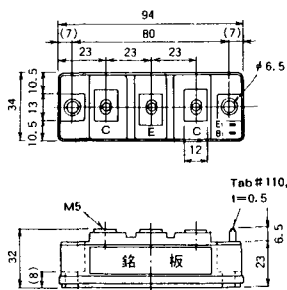
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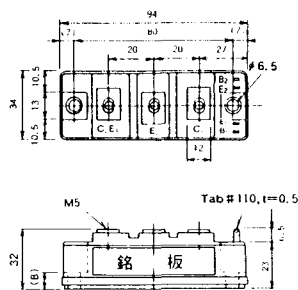
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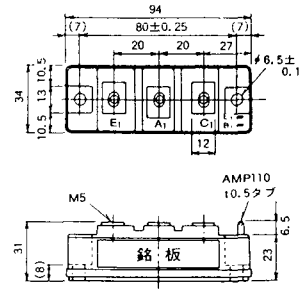
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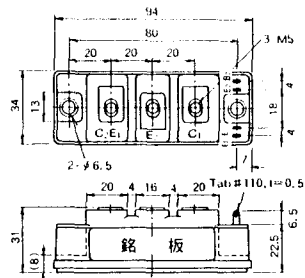
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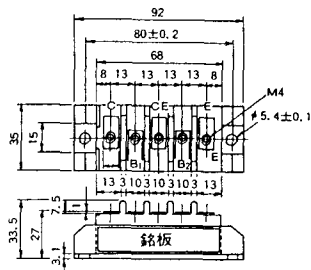
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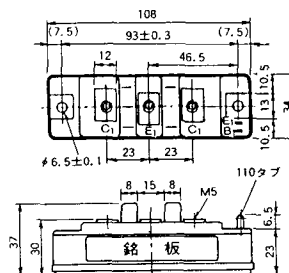
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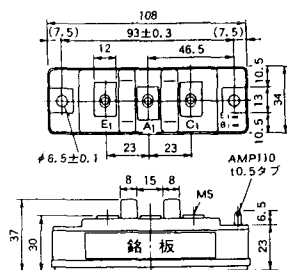
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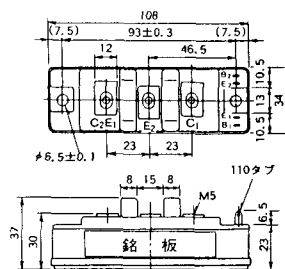
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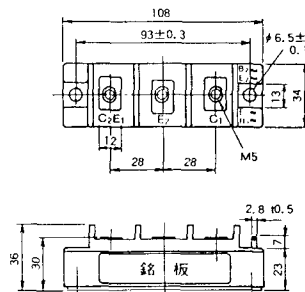
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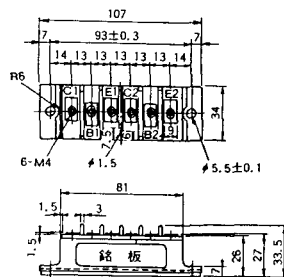
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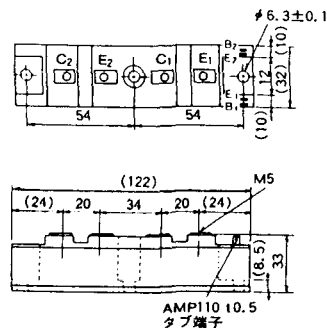
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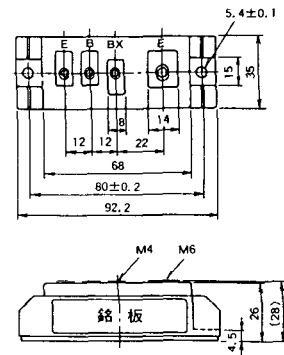
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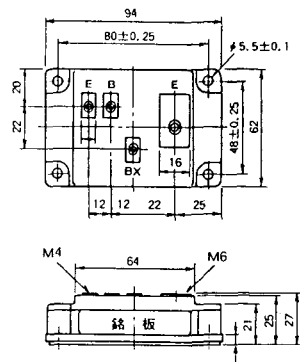
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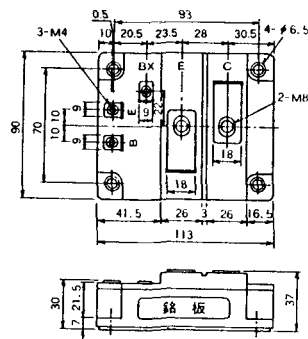
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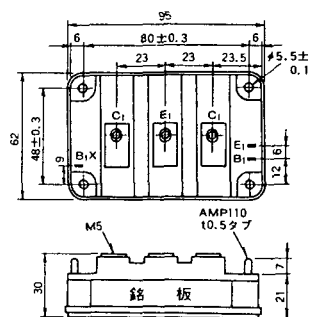
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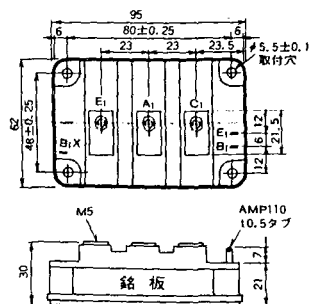
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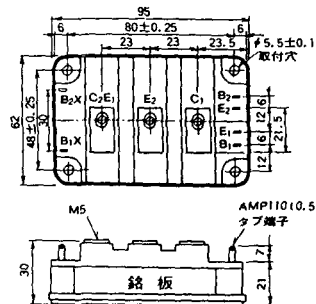
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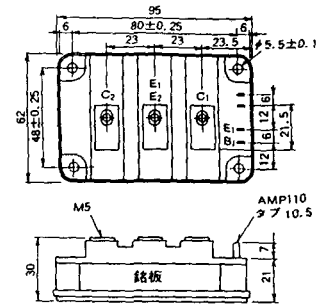
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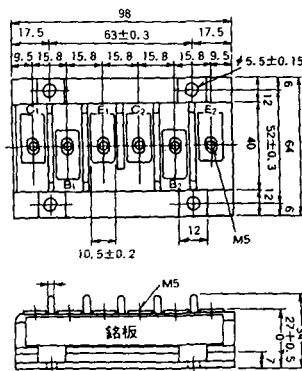
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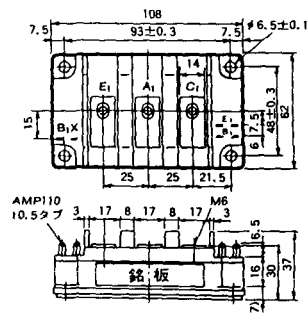
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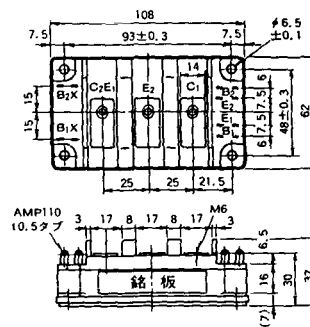
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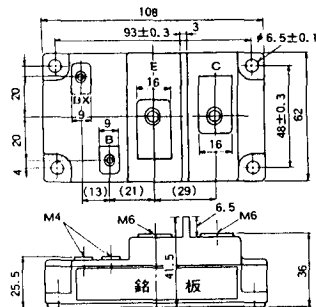
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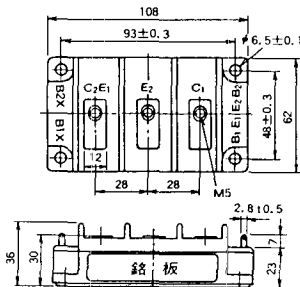
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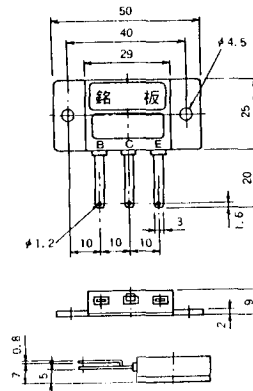
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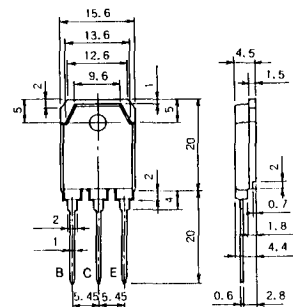
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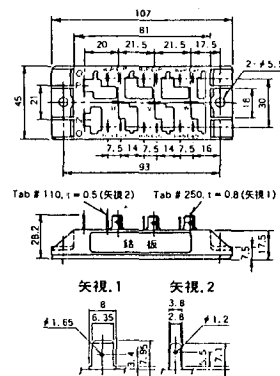
M-1A1B



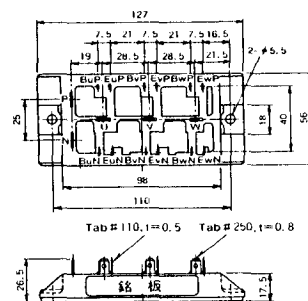
M-1A1C



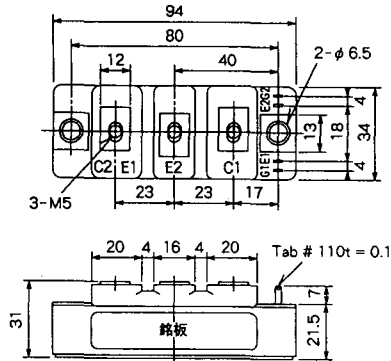
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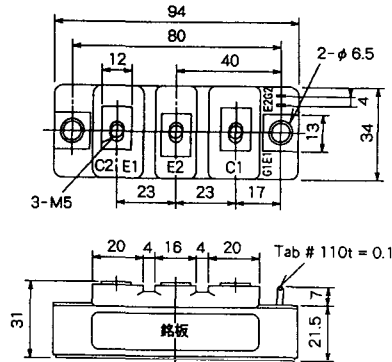
M-2E6C



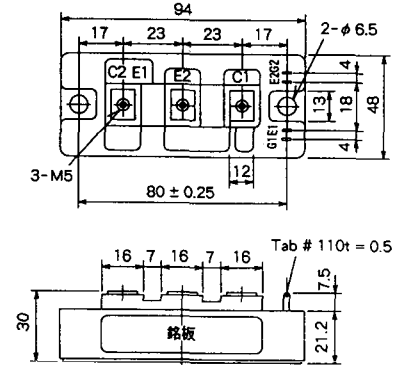
M-4A2D



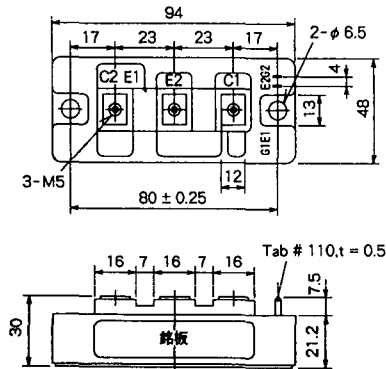
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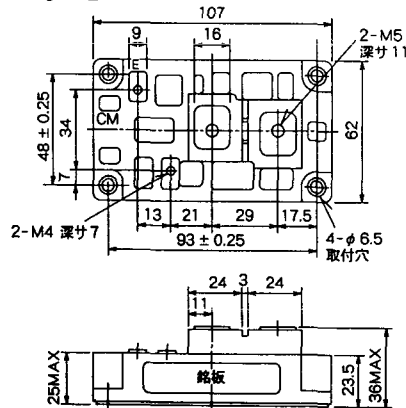
M-4C2A



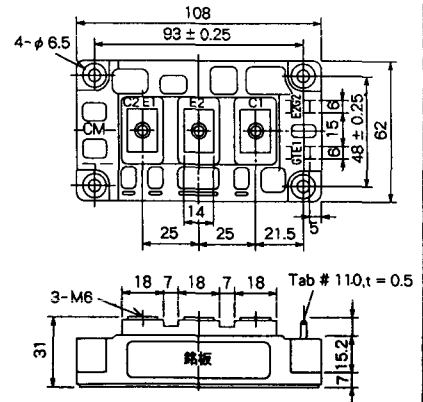
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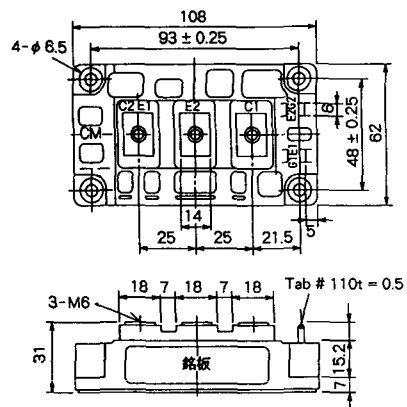
M-9B1C



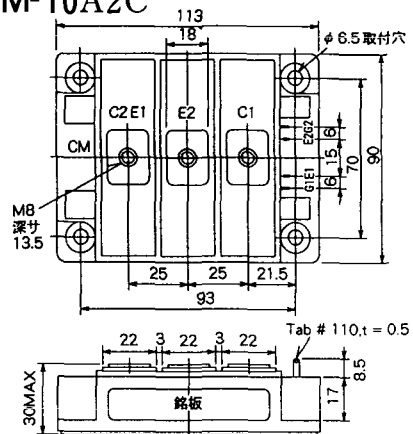
M-9D2A



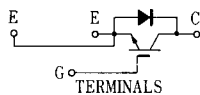
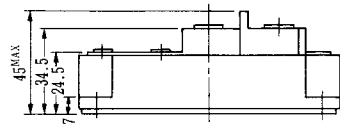
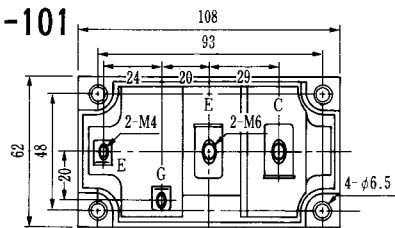
M-9D2B



M-10A2C



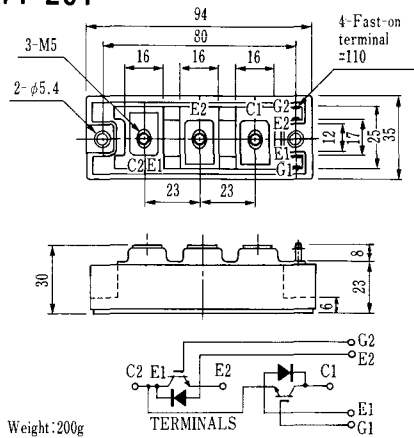
H-101



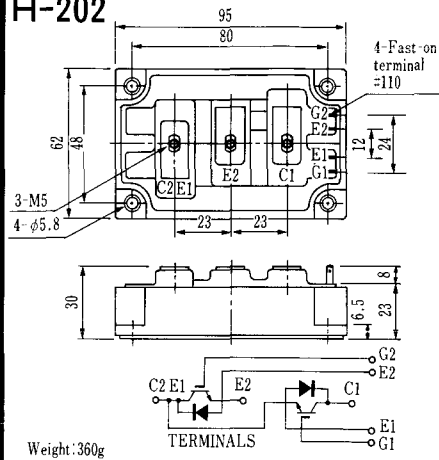
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TERMINALS

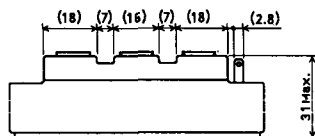
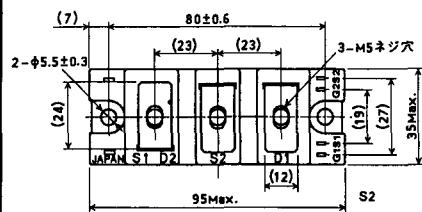
H-201



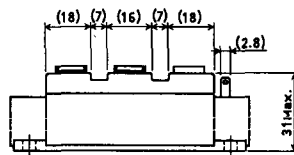
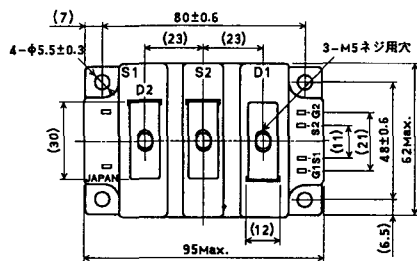
H-202



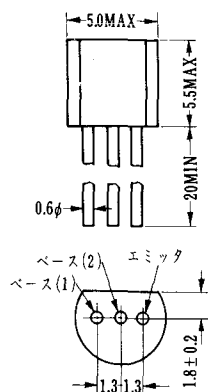
LF-J



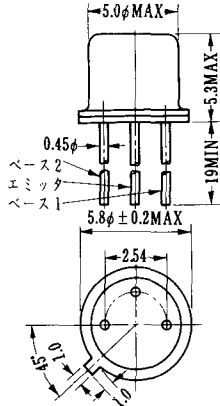
LF-K



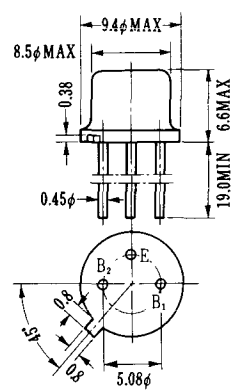
U-1



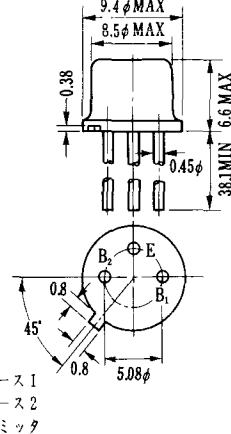
U-2



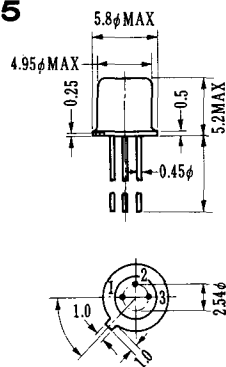
U-3



U-4

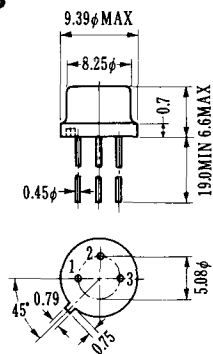


U-5



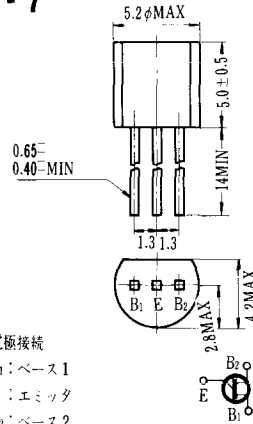
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



1. BASE (2)
2. EMITTER
3. BASE (1)

U-7



U-8

