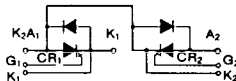


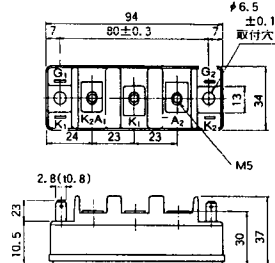
GM100DY

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

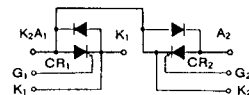
■電気的特性

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/ μ S
I_n					mA
t_{ei}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			4	μ S
t_{er}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			8	μ S
R_{th}	接合部〜ケース間			0.7	°C/W

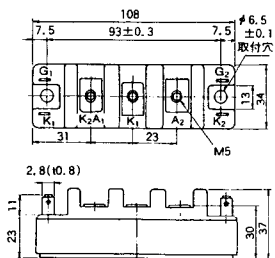
GM200DY

- 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



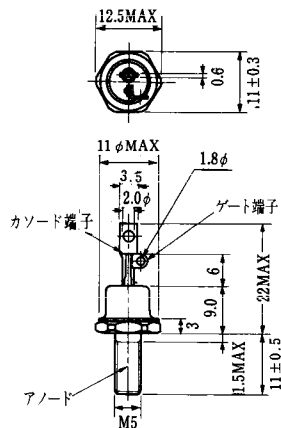
■最大定格

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

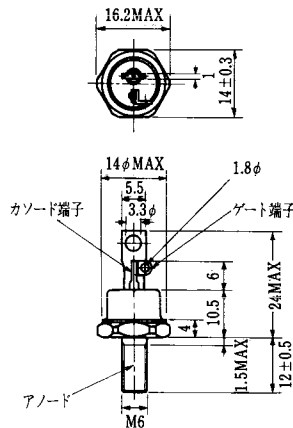
■電気的特性

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/ μ S
I_n					mA
t_{ei}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			4	μ S
t_{er}	$I_T = 100A$, $V_D = \frac{1}{2} V_{DRM}$, $T_J = 125^\circ C$			8	μ S
R_{th}	接合部〜ケース間			0.7	°C/W

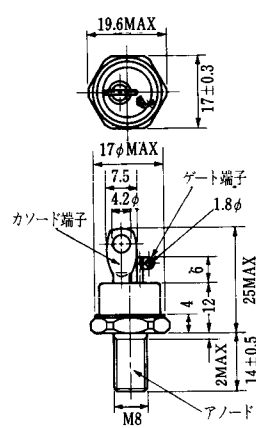
FD-1



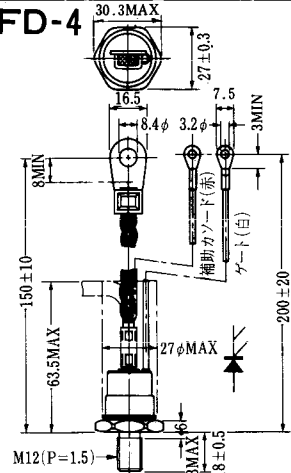
FD-2



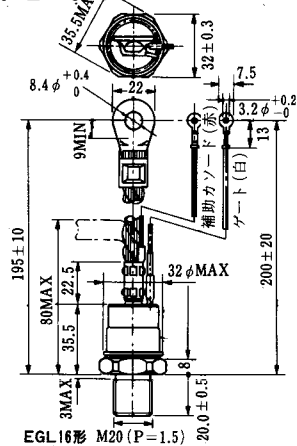
FD-3



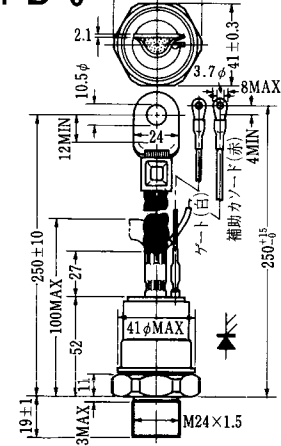
FD-4



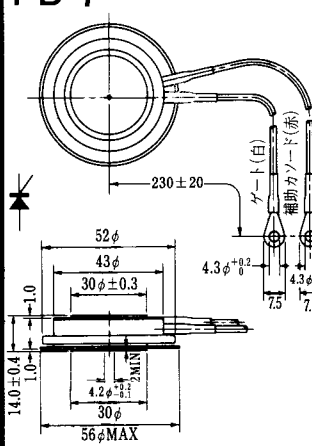
FD-5



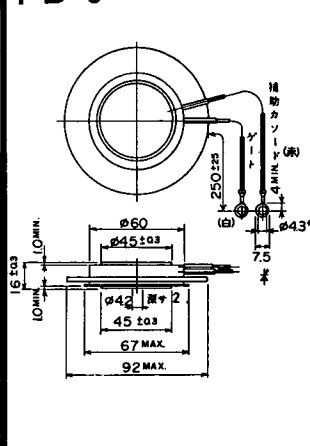
FD-6



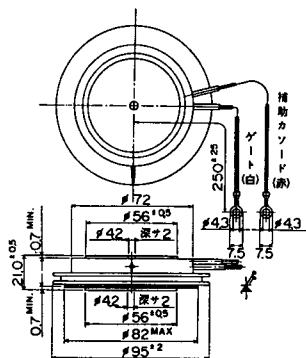
FD-7



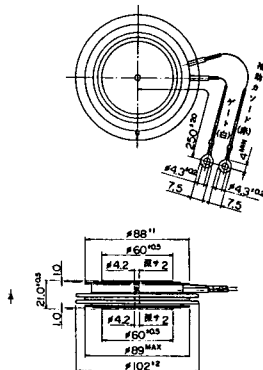
FD-8



FD-9



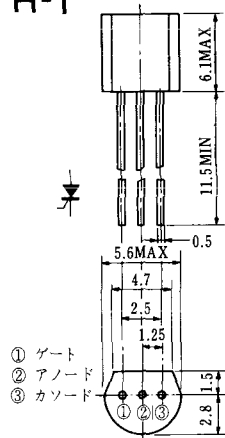
FD-10



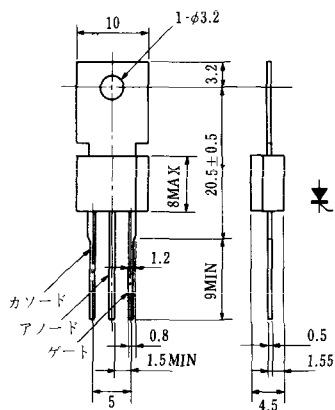
FD-11

FD-12

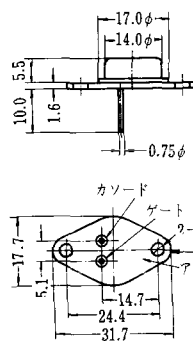
H-1



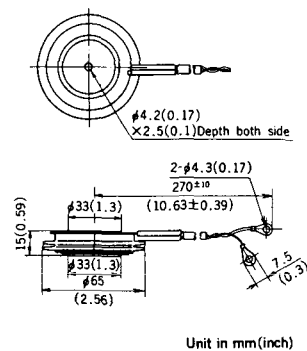
H-2



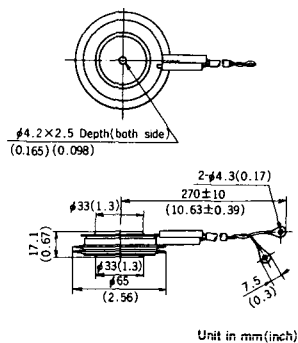
H-3



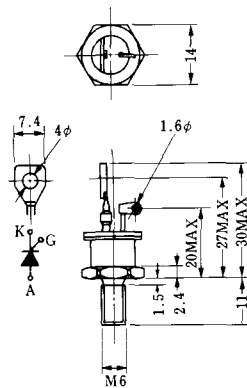
H-4



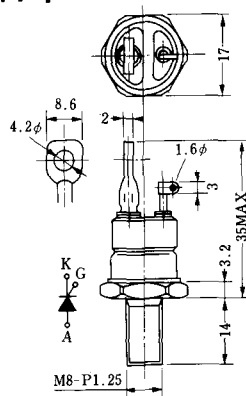
H-5



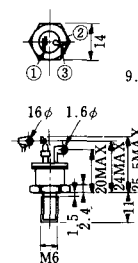
H-6



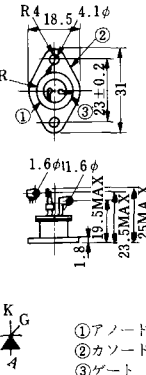
H-7



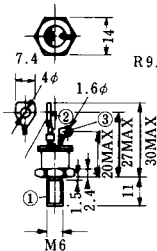
H-8A



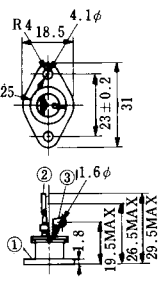
H-8B



H-9A

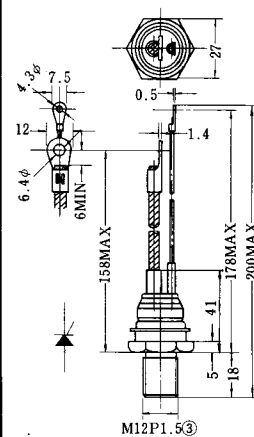


H-9B

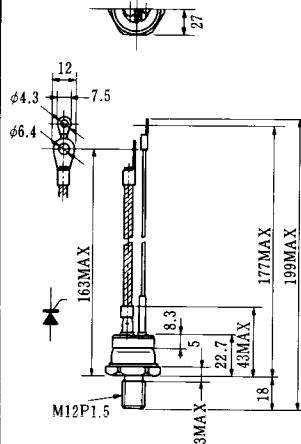


- ① アノード
- ② カソード
- ③ ゲート

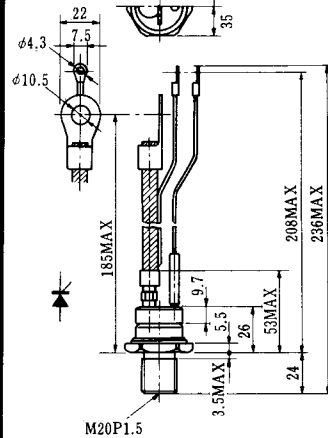
H-10



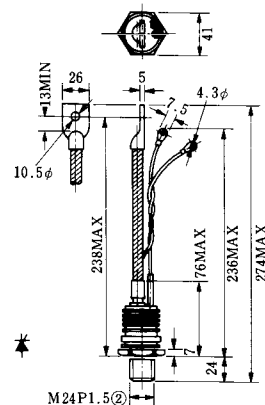
H-11



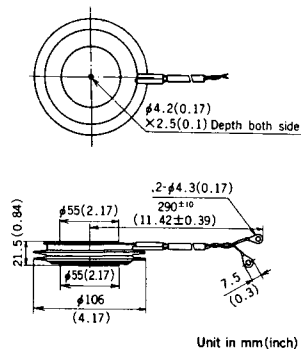
H-12



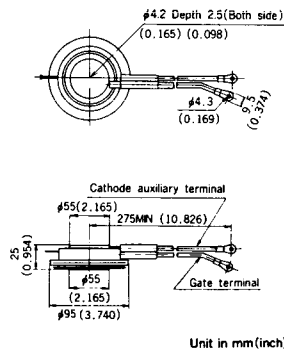
H-13



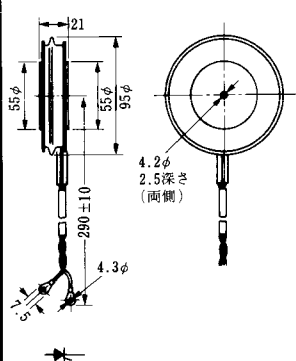
H-14



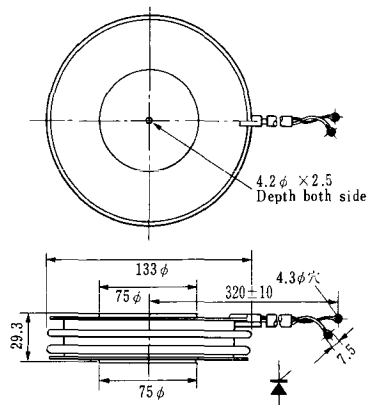
H-15



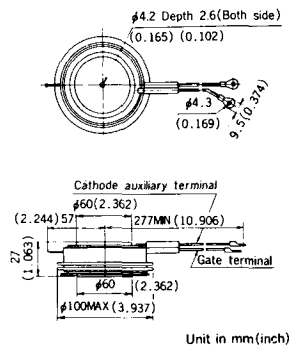
H-16



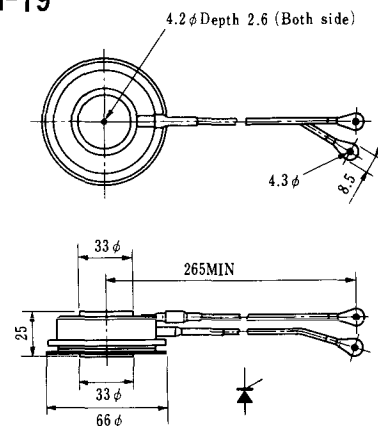
H-17



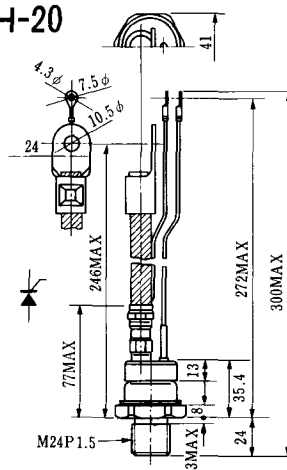
H-18



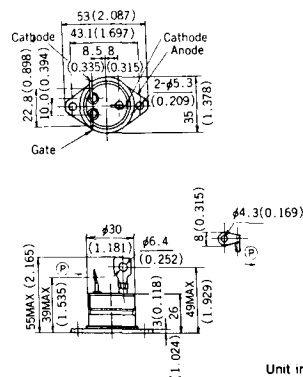
H-19



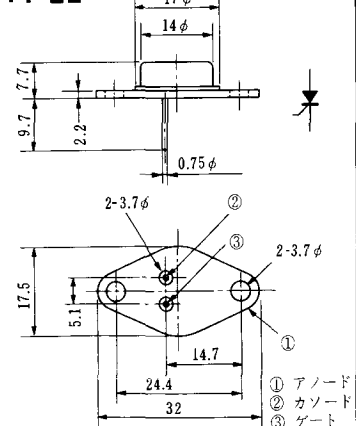
H-20



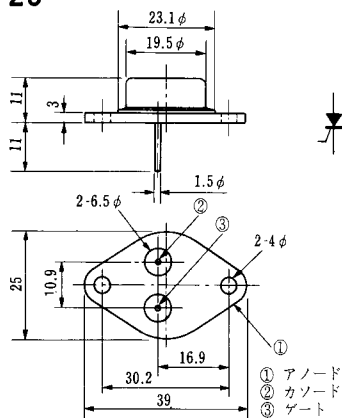
H-21



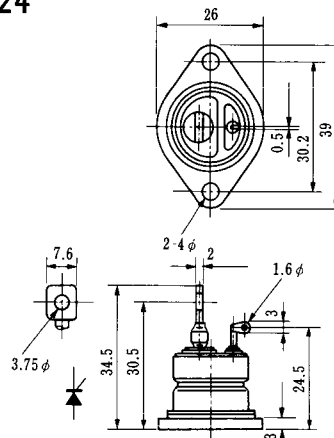
H-22



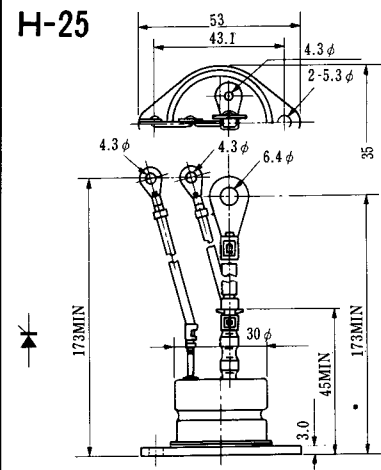
H-23



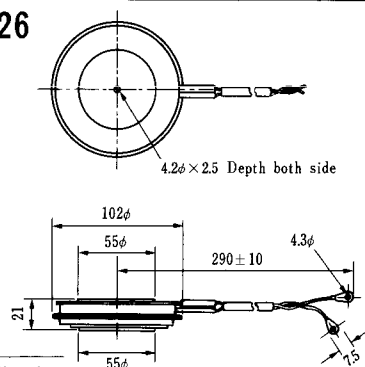
H-24



H-25

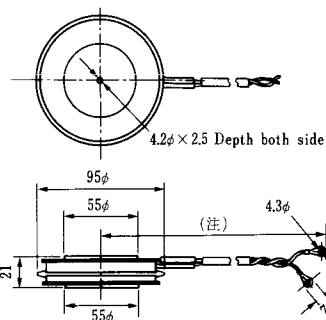


H-26



Type	Direction of polarity
CA12	

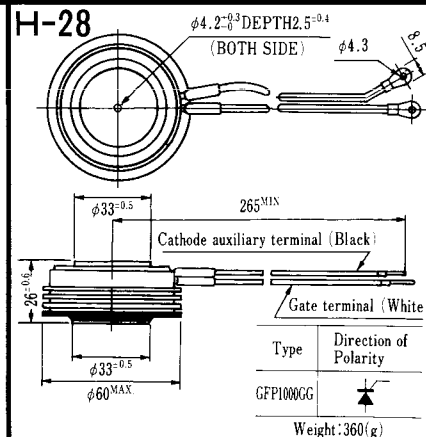
H-27



Type	Direction of polarity
CF11V	

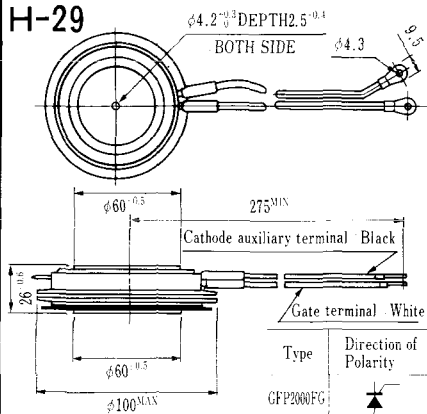
(注) CC11V: 400 $\pm$ 10
CF11V: 250 $\pm$ 10

H-28



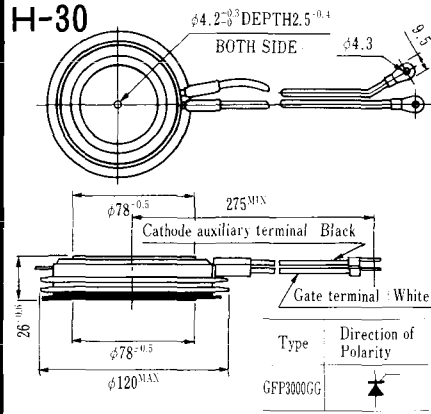
Note: The thickness is a dimension in press at the rated mounting force.

H-29



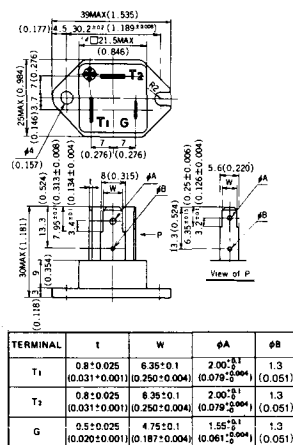
Note : The thickness is a dimension in press at the rated mounting force.

H-30



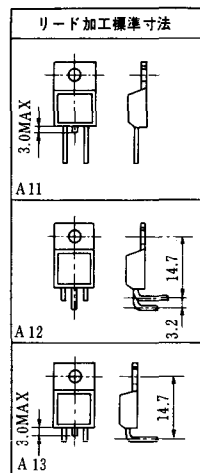
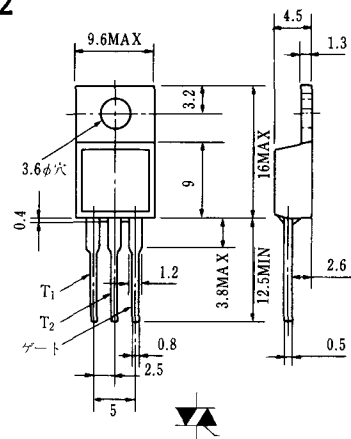
Note : The thickness is a dimension in press at the rated mounting force.

HT-1

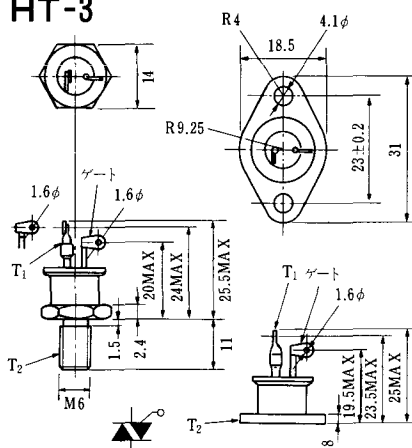


Unit in mm (inch)

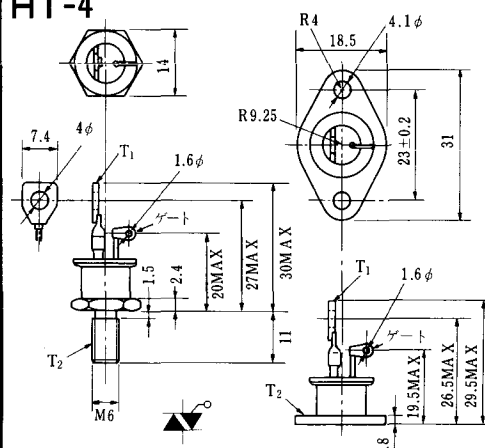
HT-2



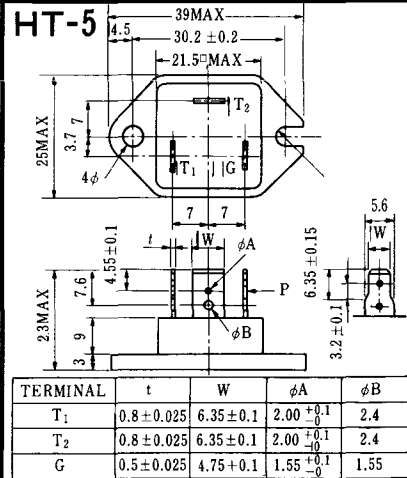
HT-3



HT-4

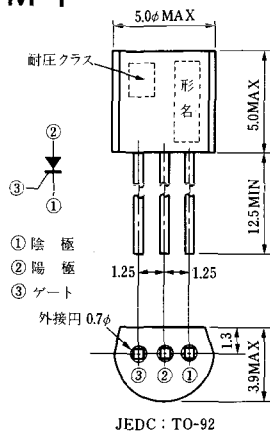


HT-5

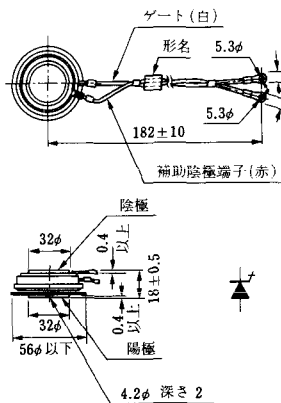


《寸法図単位：mm》

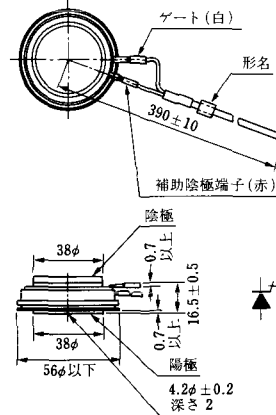
M-1



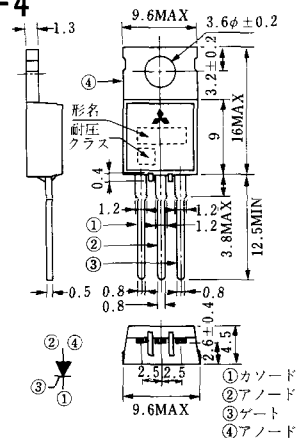
M-2



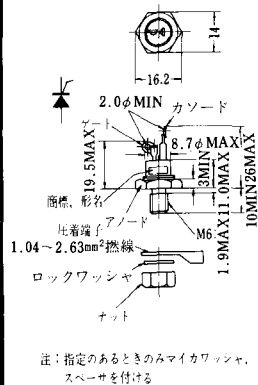
M-3



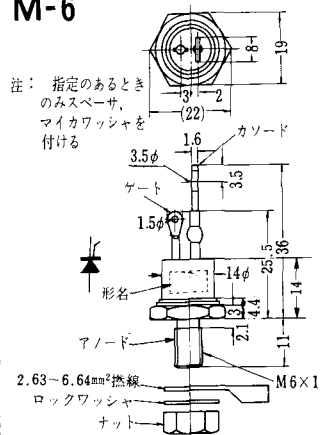
M-4



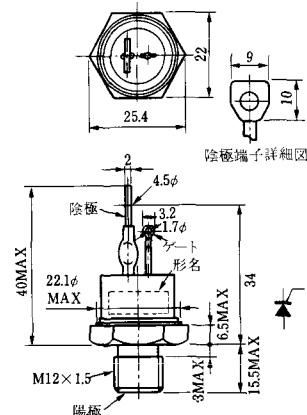
M-5



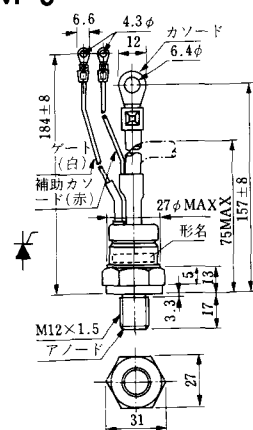
M-6



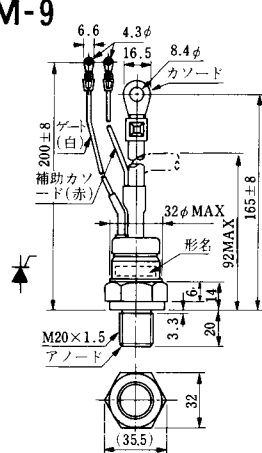
M-7



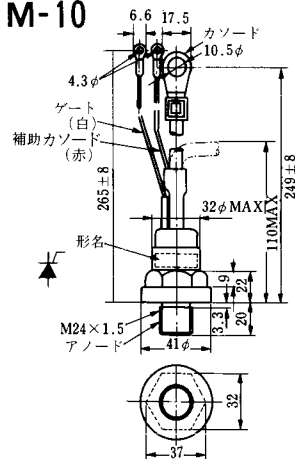
M-8



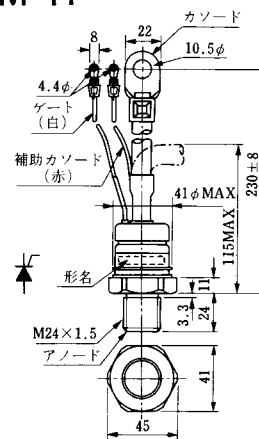
M-9



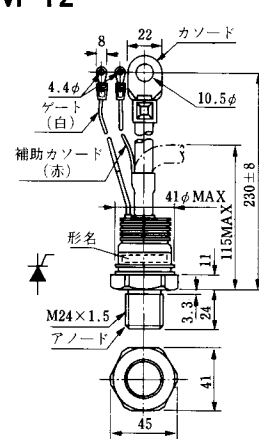
M-10



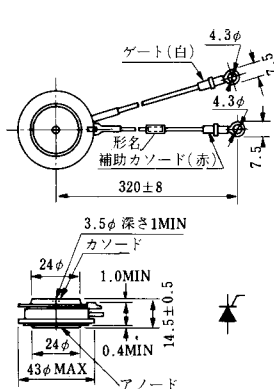
M-11



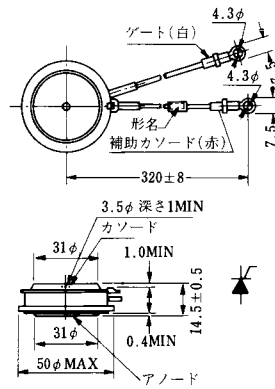
M-12



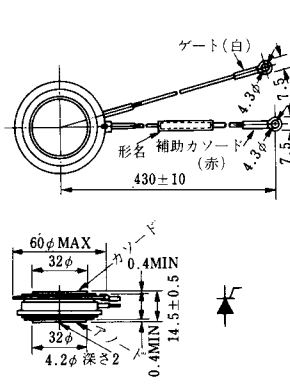
M-13



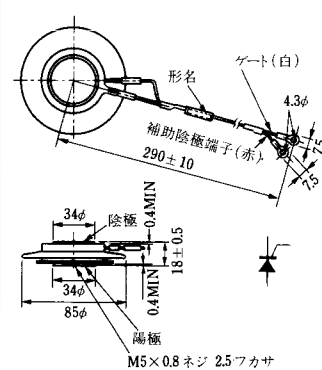
M-14



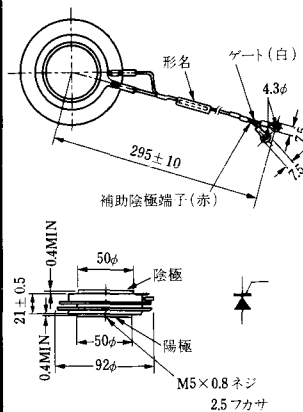
M-15



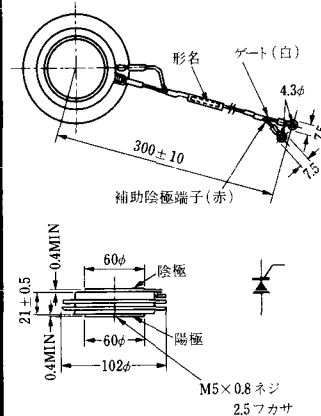
M-16



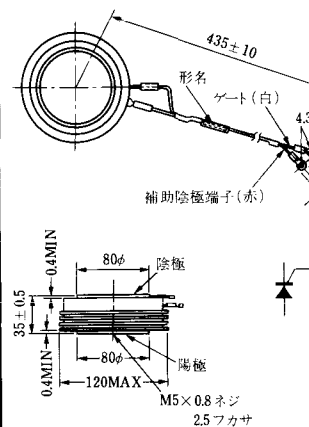
M-17



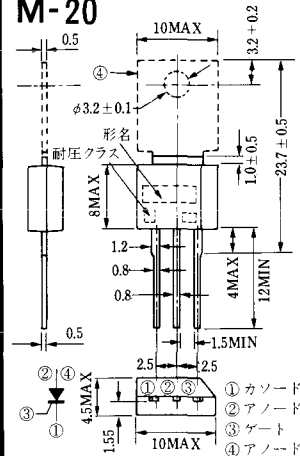
M-18



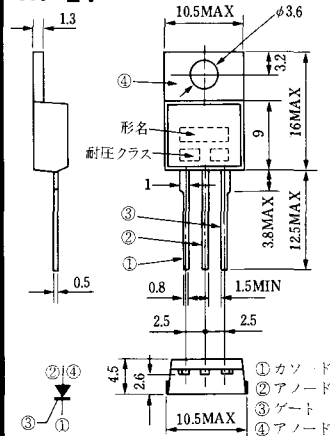
M-19



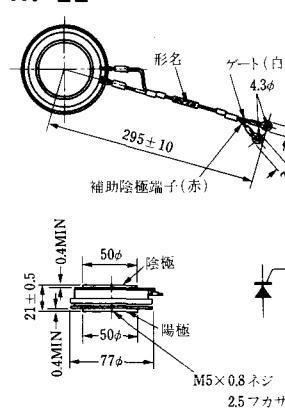
M-20



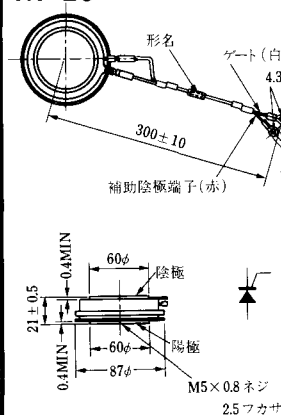
M-21



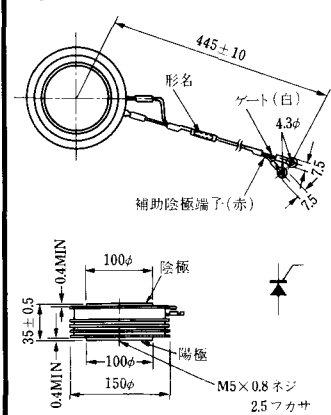
M-22



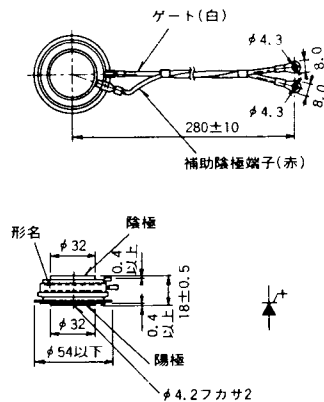
M-23



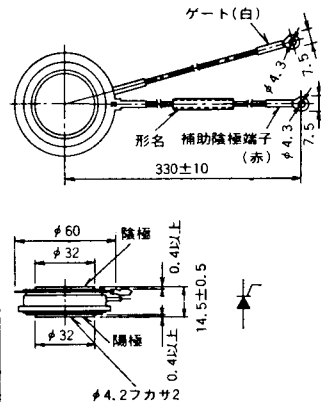
M-24



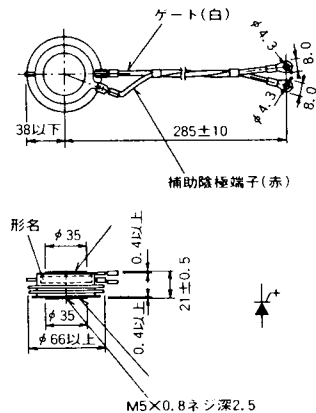
M-25



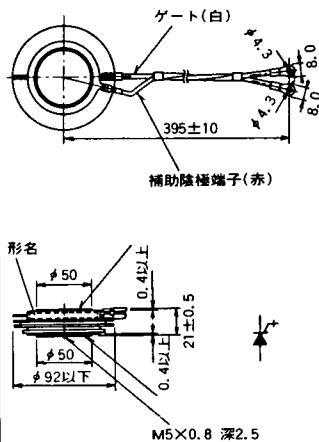
M-26



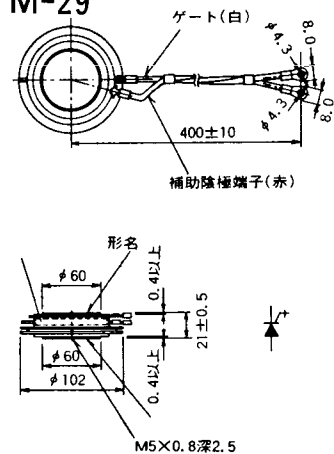
M-27



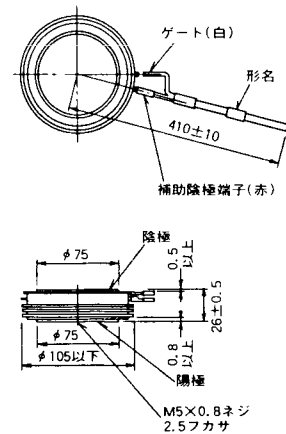
M-28



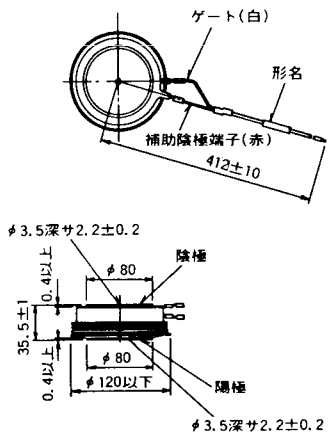
M-29



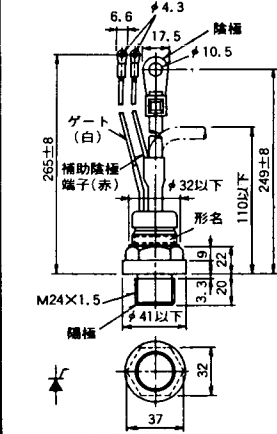
M-30



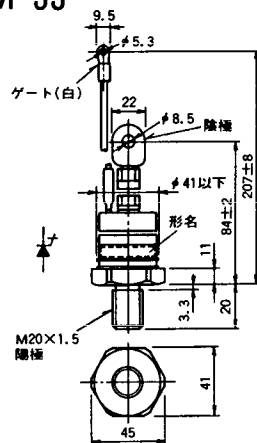
M-31



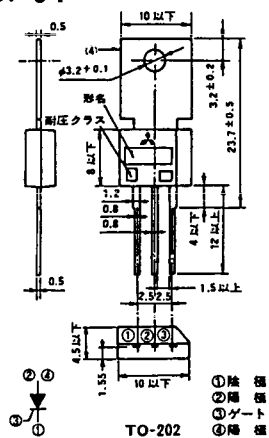
M-32



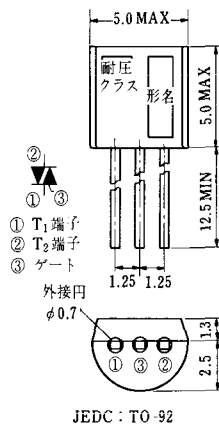
M-33



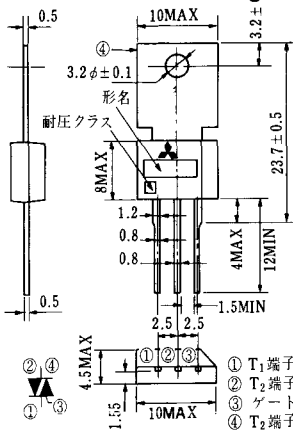
M-34



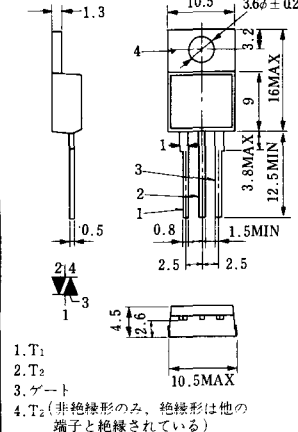
MT-1



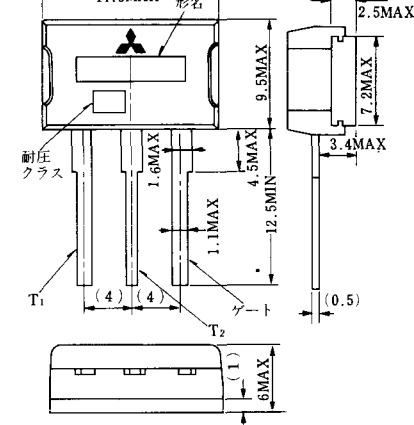
MT-2



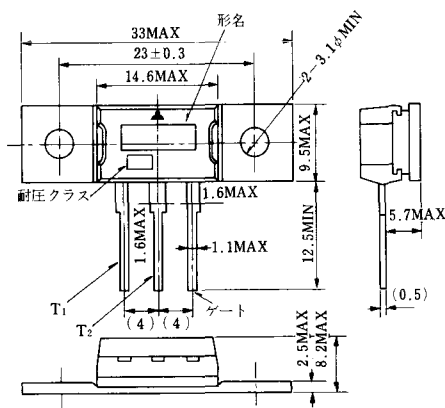
MT-3



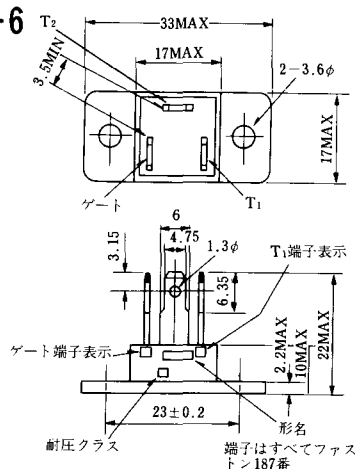
MT-4



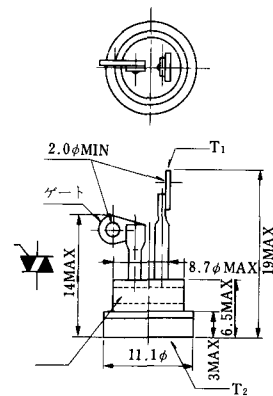
MT-5



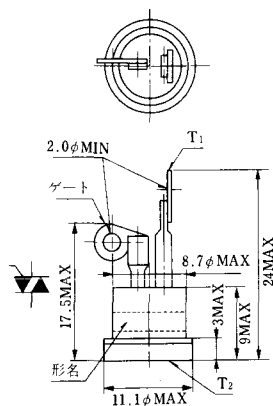
MT-6



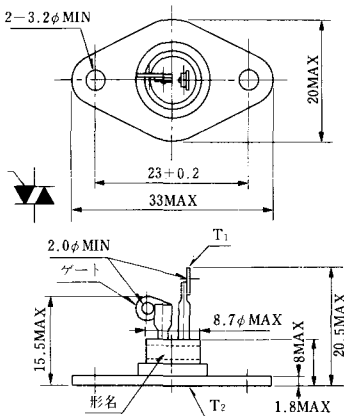
MT-7



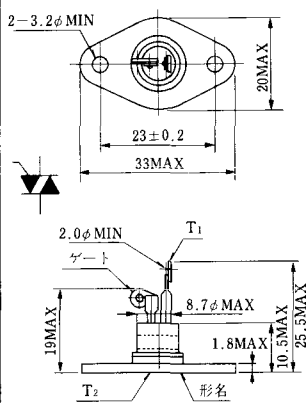
MT-8



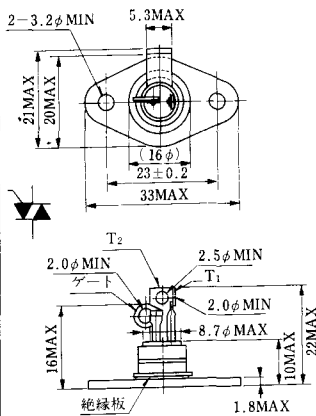
MT-9



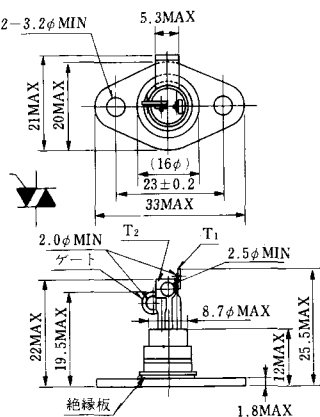
MT-10



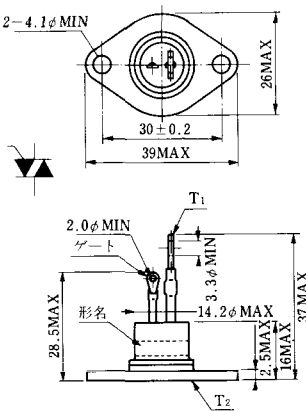
MT-11



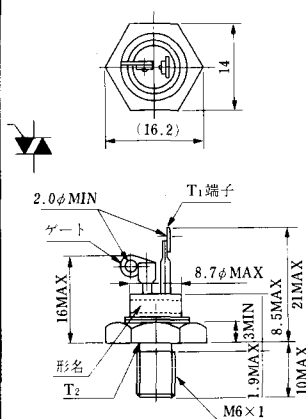
MT-12



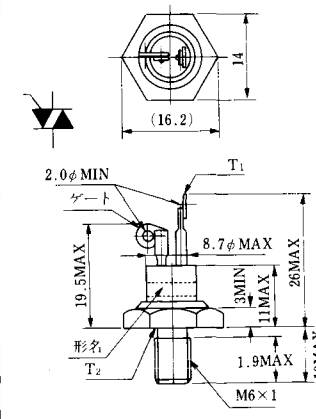
MT-13



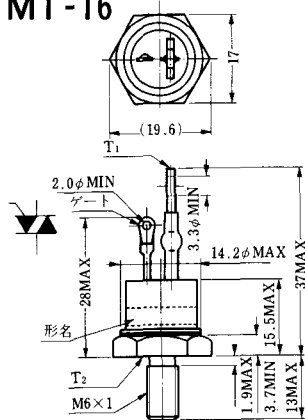
MT-14



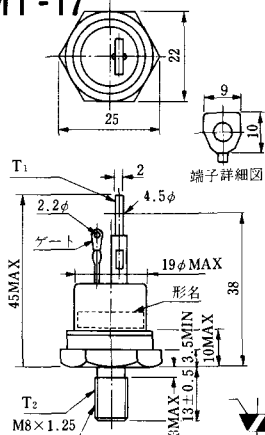
MT-15



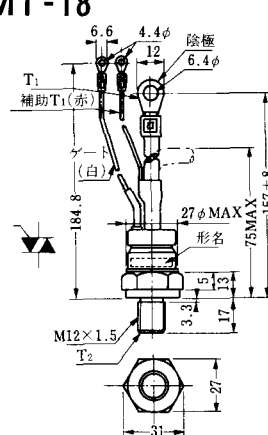
MT-16



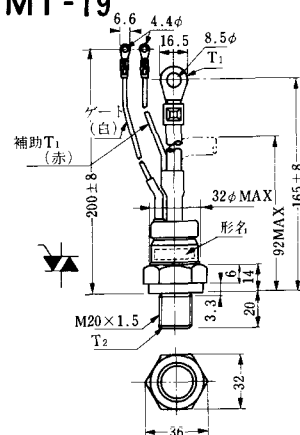
MT-17



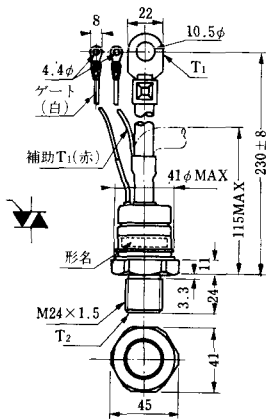
MT-18



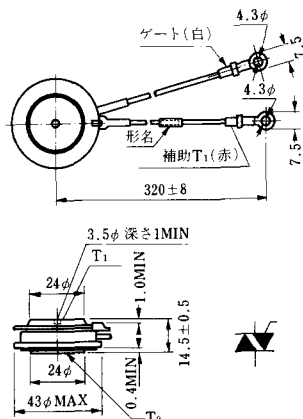
MT-19



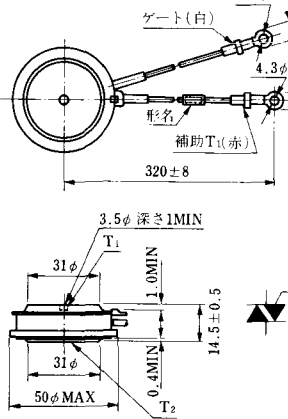
MT-20



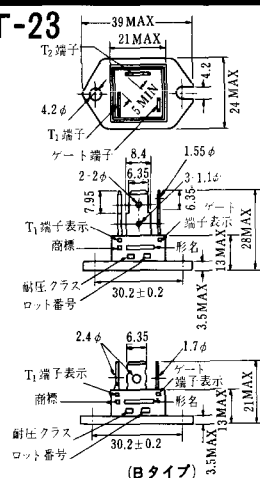
MT-21



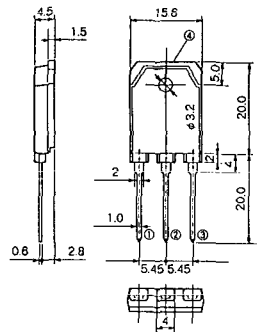
MT-22



MT-23



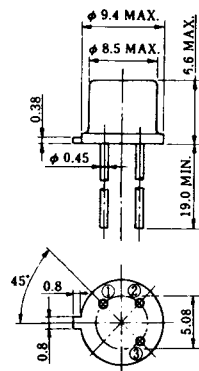
MT-24



TO - 3P

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

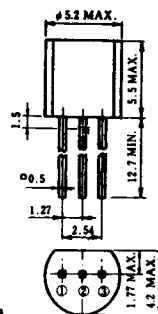
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

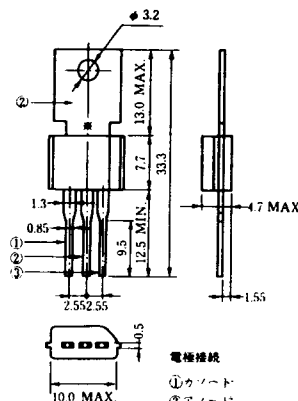
N-2



電極接続

- ① ヤート
- ② アノード
- ③ カソード

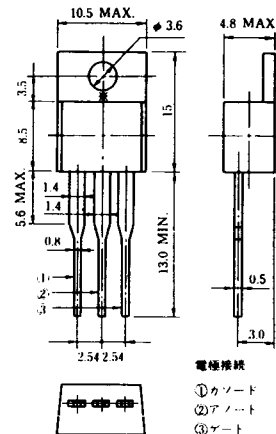
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

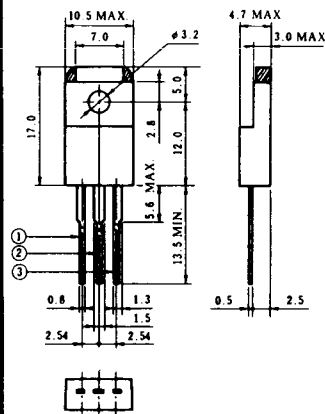
N-4



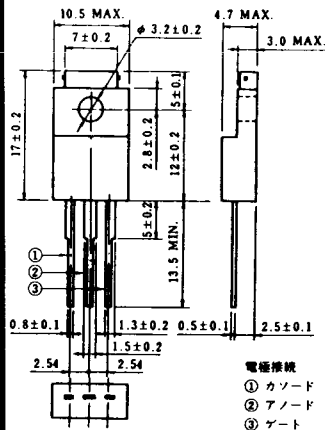
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



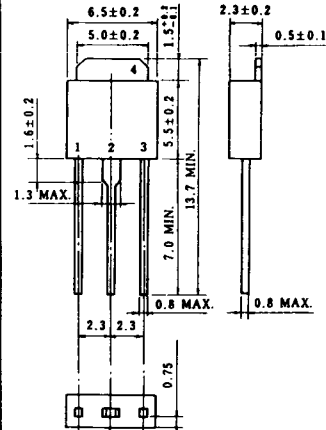
N-6



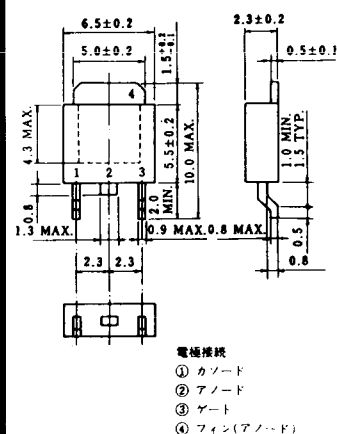
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



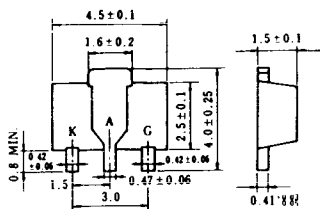
N-8



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



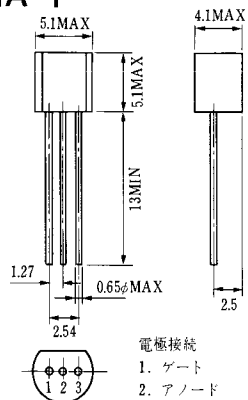
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

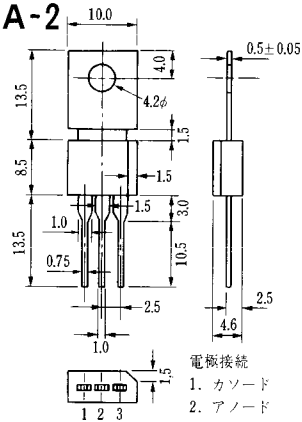


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2



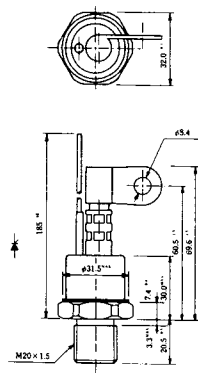
電極接続

1. カソード
2. アノード
3. ゲート

JEDEC: TO-202AA

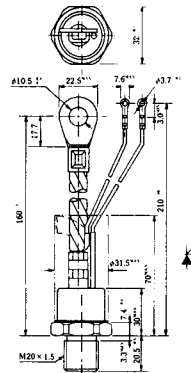
NI-9

259RW
309RW



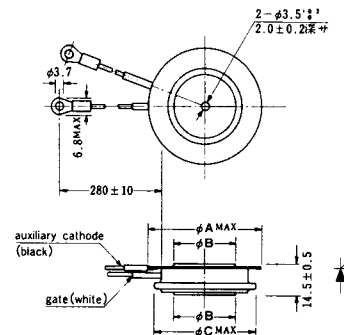
NI-10

259RW_JL
309RW_JL



NI-11

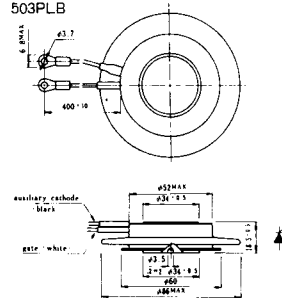
103PA
253PA
503PA
553PA
803PA
103PLE
103PLG
103PLH
203PLG
253PLE
253PLH
353PLG
403PLE
403PLH



型名	103PA, 103PLE, 103PLG, 103PLH	253PA, 203PLG, 253PLE, 253PLH	503PA, 553PA, 353PLG, 403PLE, 403PLH	803PA
寸法				
A	40	46	55.5	55.5
B	16	22	30	32
C	36	42	50.5	50.5

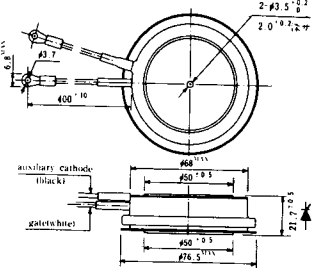
NI-12

403PAB
503PAB
503PLB



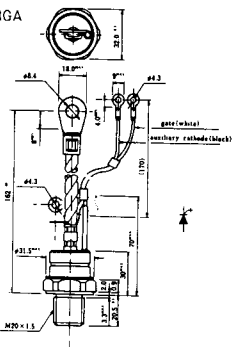
NI-13

1003PA
1003PAB
1003PLF
1003PLH
1503PA



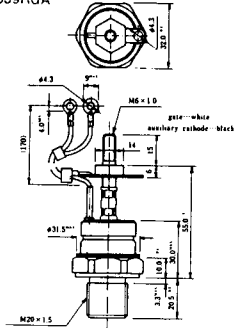
NI-14

358RGA



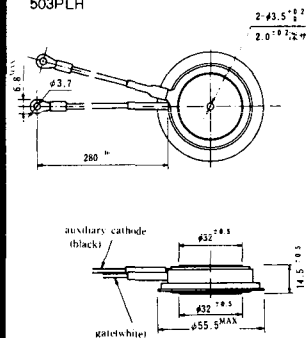
NI-15

359RGA



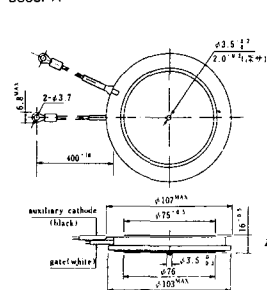
NI-16

503PLF
503PLH



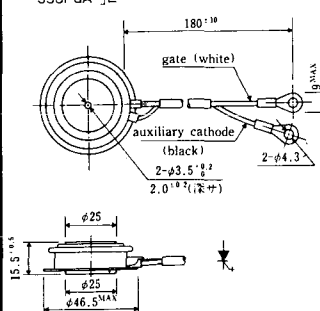
NI-17

3003PA



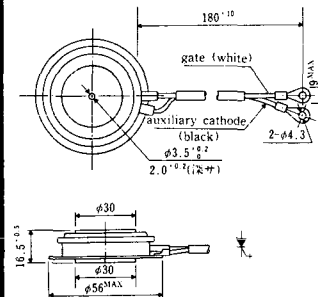
NI-18

353PGA「E



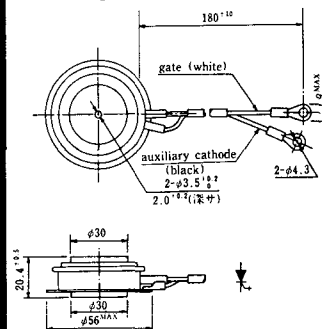
NI-19

603PGA, 603PGA「A, 803PGA



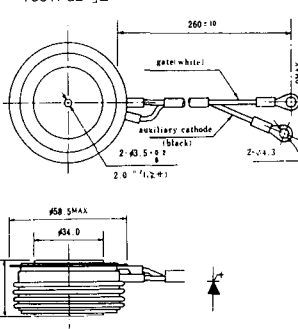
NI-20

603PGA「E



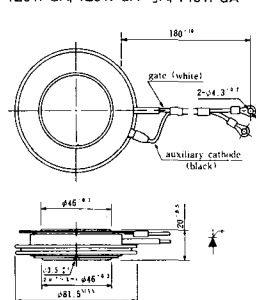
NI-21

1001PGB「E



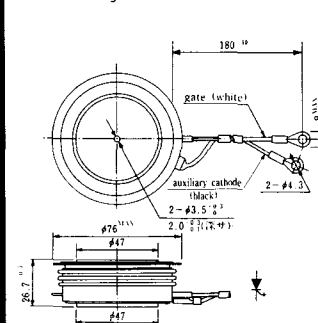
NI-22

1201PGA, 1201PGA「A, 1401PGA



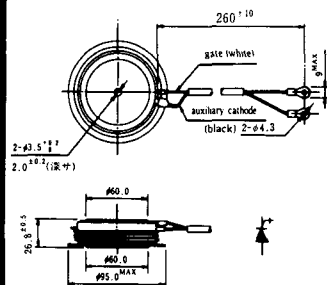
NI-23

1201PGA「E



NI-24

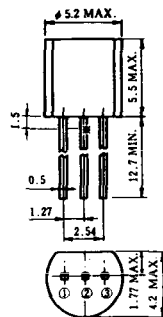
2001PGB^r JE



NI-25

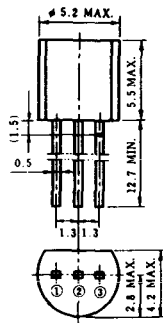
NI-26

NT-1



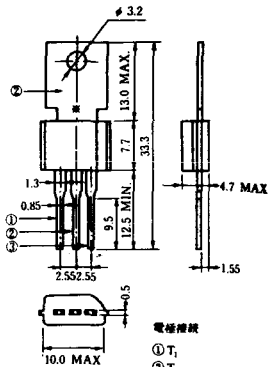
電線接続
① T₁
② ゲート
③ T₂

NT-2



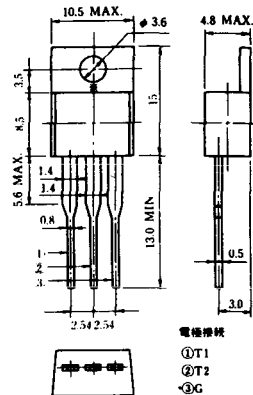
電線接続
① T₁
② ゲート
③ T₂

NT-3



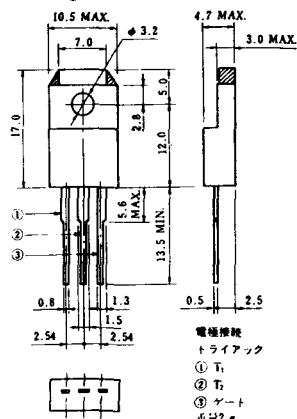
電線接続
① T₁
② T₂
③ ゲート

NT-4



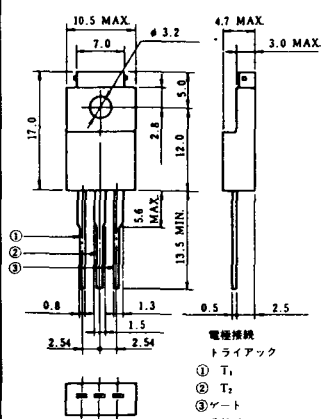
電線接続
① T₁
② T₂
③ G

NT-5



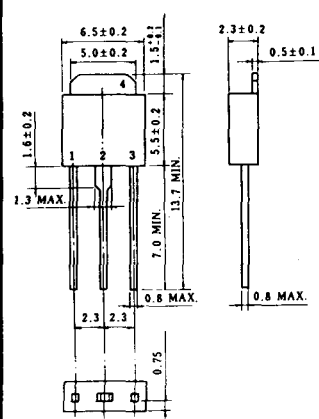
電線接続
トライアック
① T₁
② T₂
③ ゲート
④ 2K

NT-6

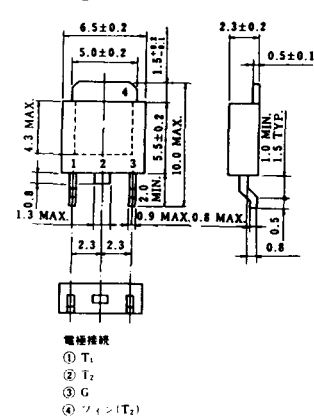


電線接続
トライアック
① T₁
② T₂
③ ゲート
④ 2K

NT-7

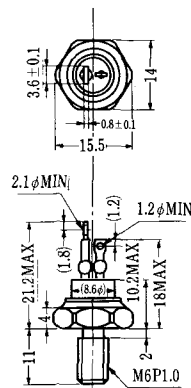


NT-8

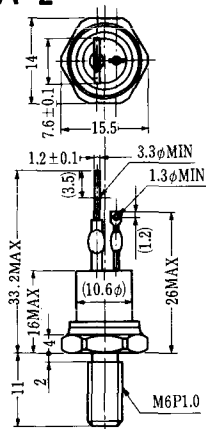


電線接続
① T₁
② T₂
③ G
④ T₁ (T₂)

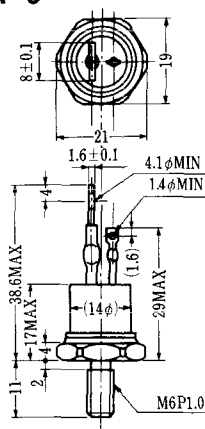
SA-1



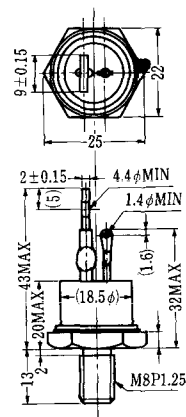
SA-2



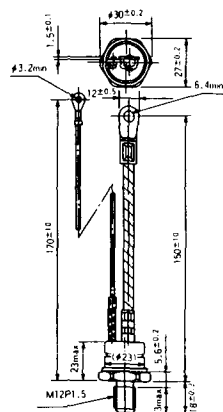
SA-3



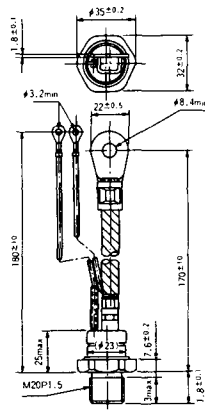
SA-4



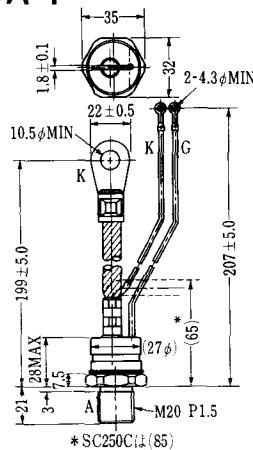
SA-5



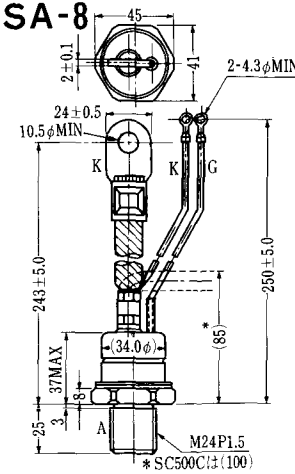
SA-6



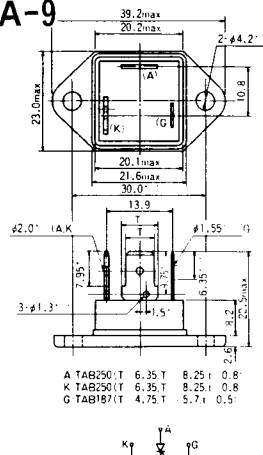
SA-7



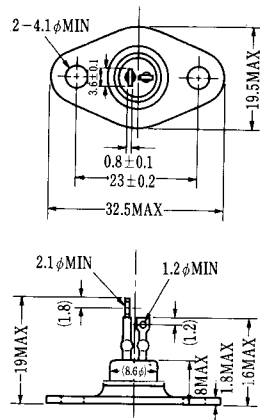
SA-8



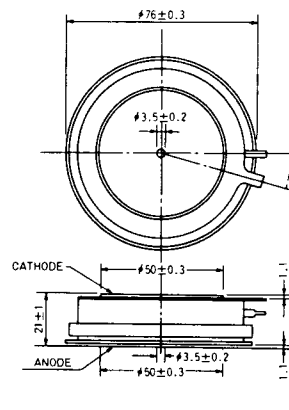
SA-9



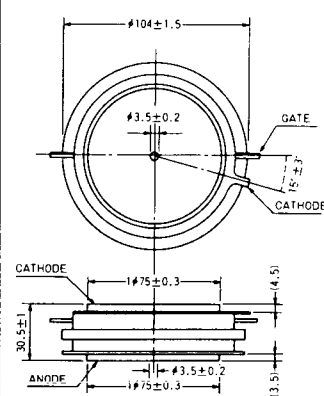
SA-10



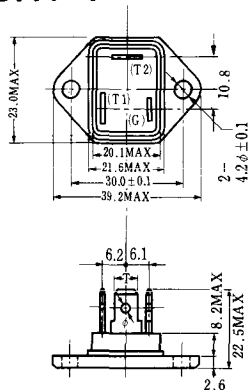
SA-11



SA-12

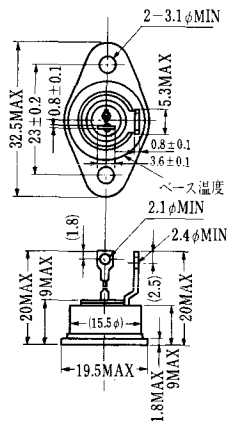


SAT-1

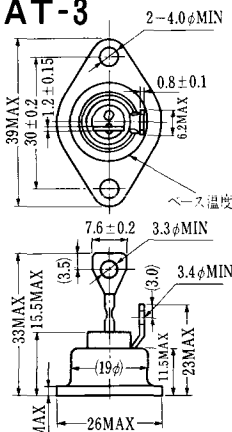


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

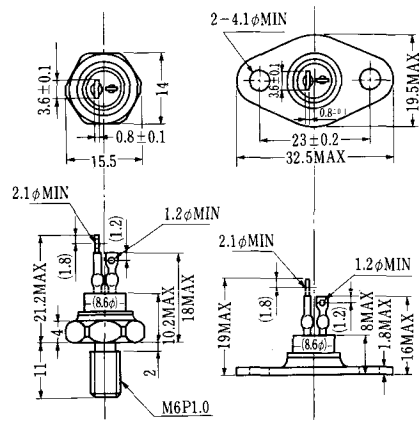
SAT-2



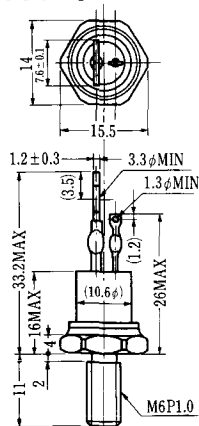
SAT-3



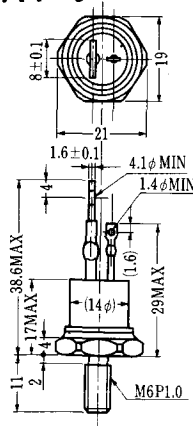
SAT-4



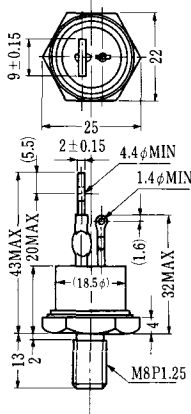
SAT-5



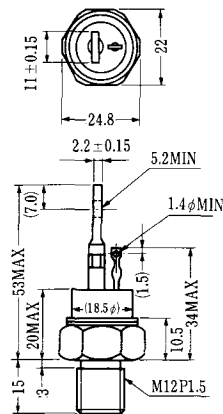
SAT-6



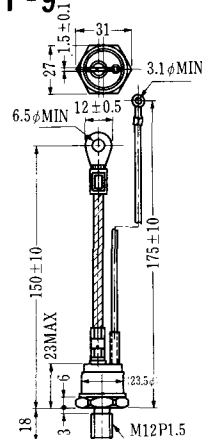
SAT-7



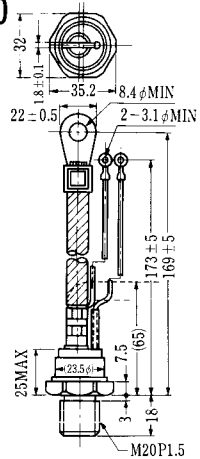
SAT-8



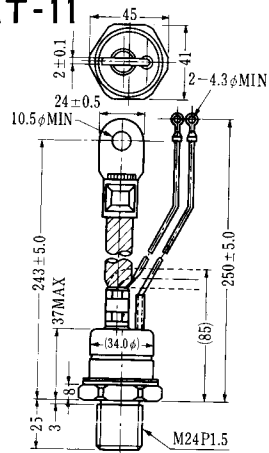
SAT-9.



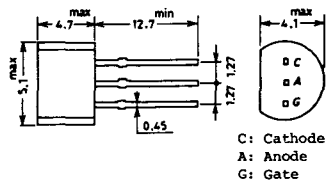
SAT-10



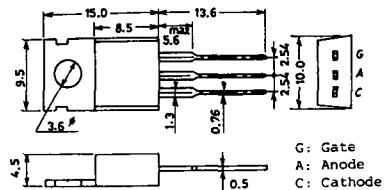
SAT-11



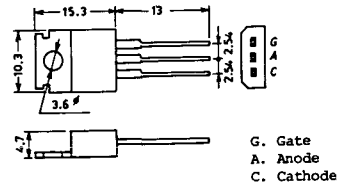
SY-1(1096A)



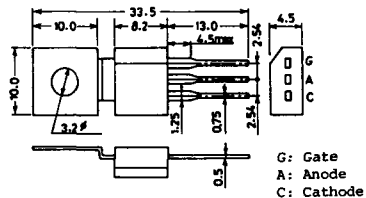
SY-2(1151)



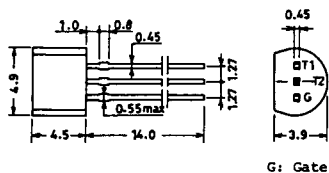
SY-3(1104)



SY-4(1150)

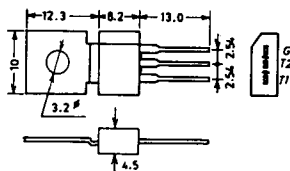


1097A

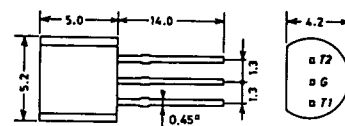


G: Gate

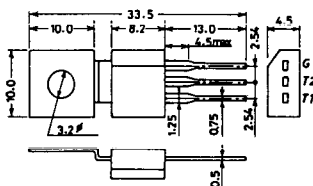
1102



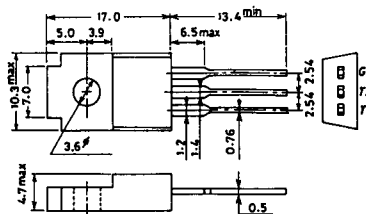
1141



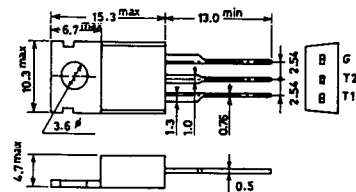
1142



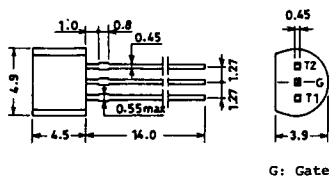
1144



1155

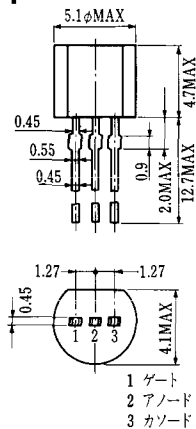


1192A

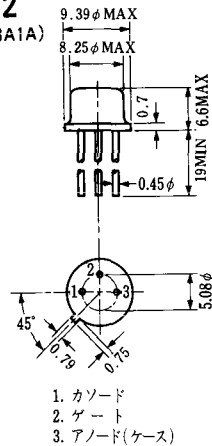


G: Gate

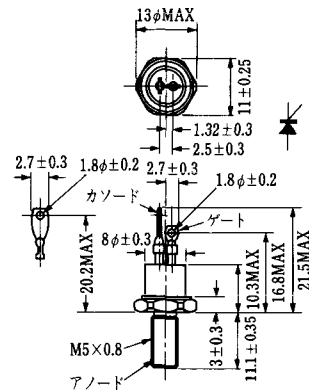
T-1 (13-5A1A)



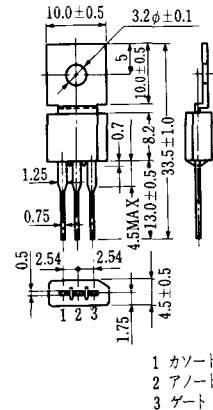
T-2 (13-8A1A)



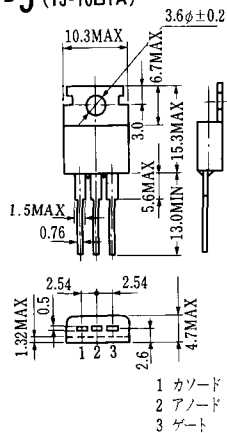
T-3 (13-8C1A)



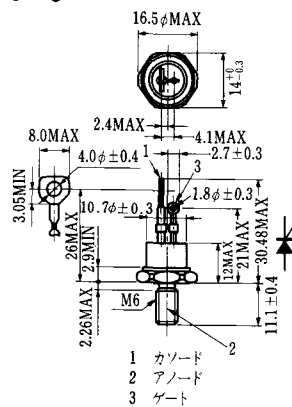
T-4 (13-10A1A)



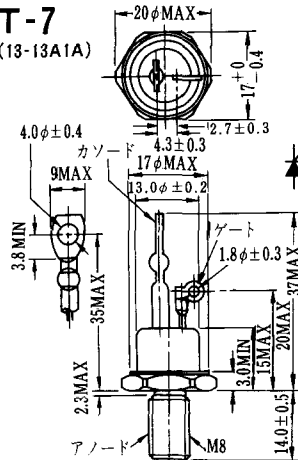
T-5 (13-10B1A)



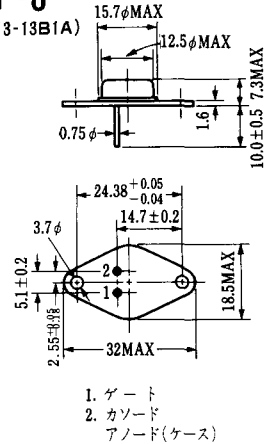
T-6 (13-11D1A)



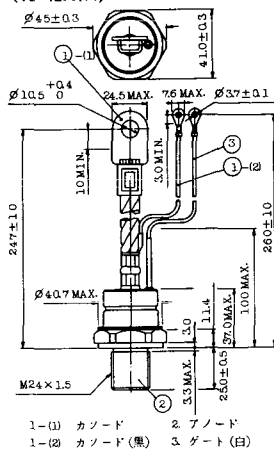
T-7 (13-13A1A)



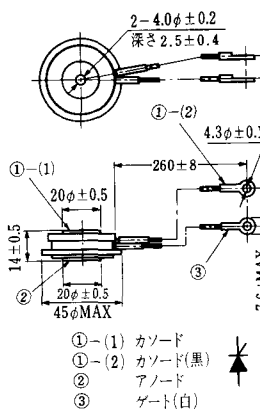
T-8 (13-13B1A)



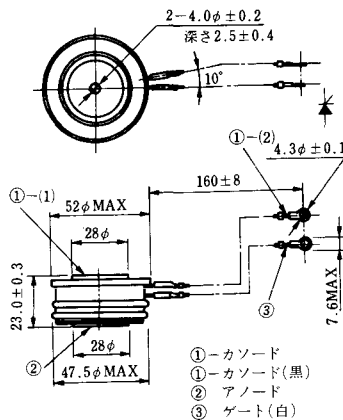
T-17 (13-42A1A)



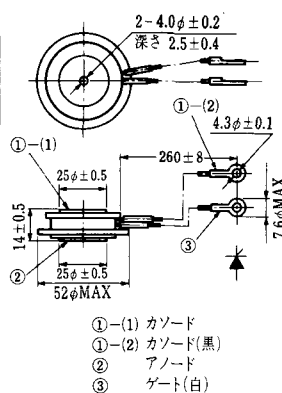
T-18 (13-45D1A)



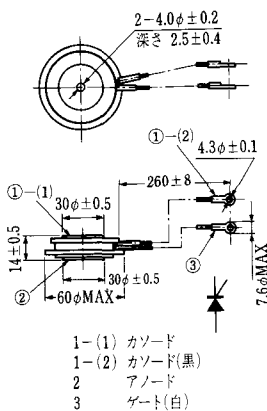
T-19 (13-52B1A)



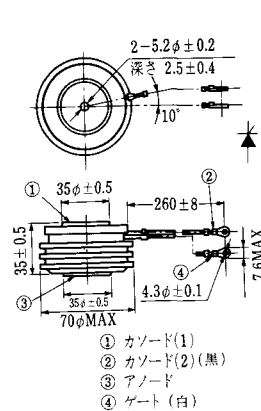
T-20 (13-52C1A)



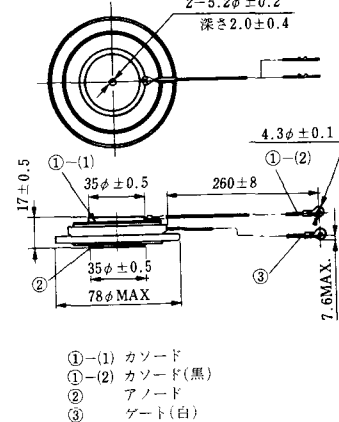
T-21 (13-60A1A)



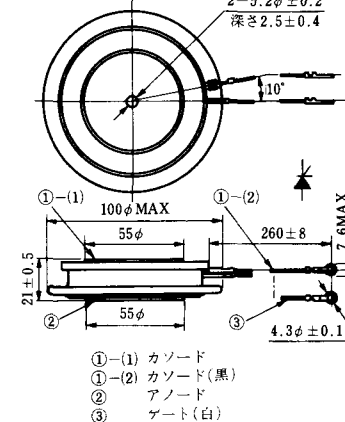
T-22 (13-70C1A)



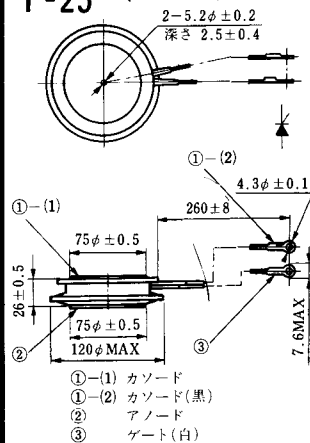
T-23 (13-78A1A)



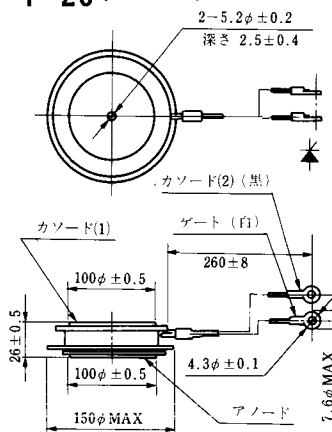
T-24 (13-100C1A)



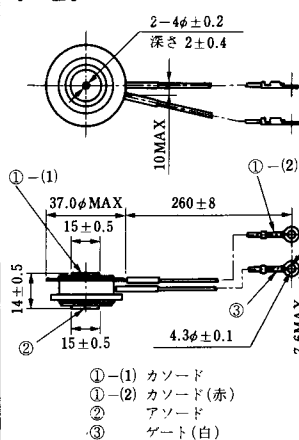
T-25 (13-120A2A)



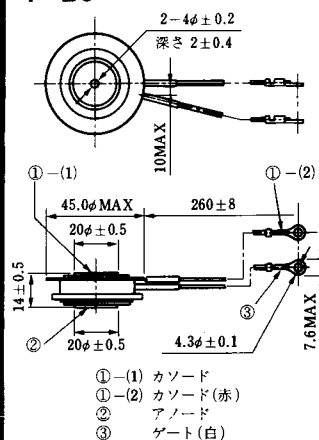
T-26 (13-150A1A)



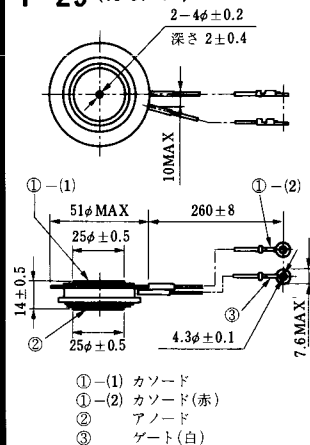
T-27 (13-37A1A)



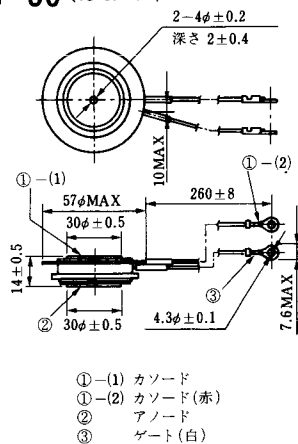
T-28 (13-45E1A)



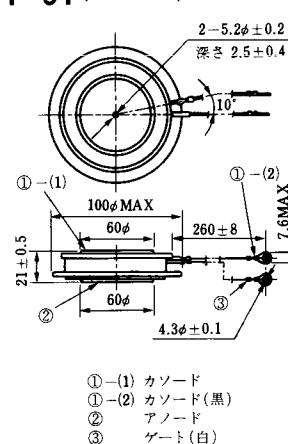
T-29 (13-51A1A)



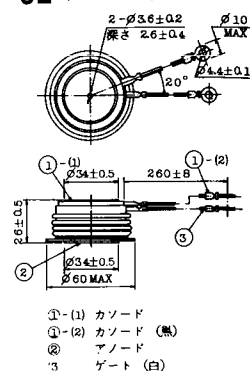
T-30 (13-57A1A)



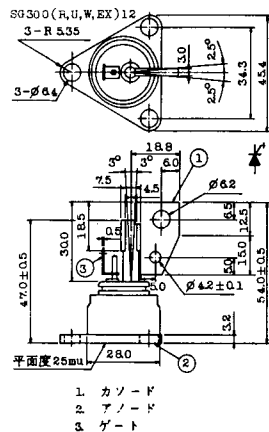
T-31 (13-100E1A)



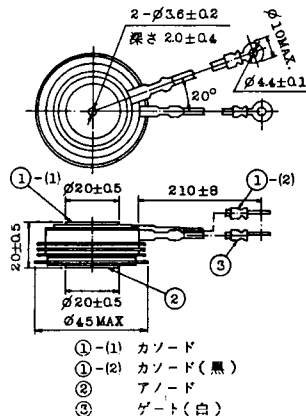
T-32 (13-60E3A)



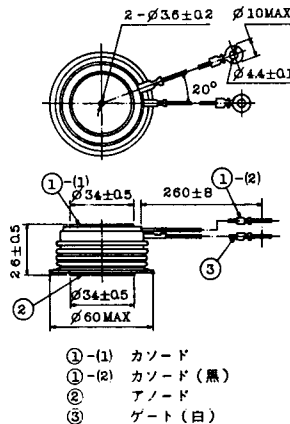
T-41 (13-28A2A)



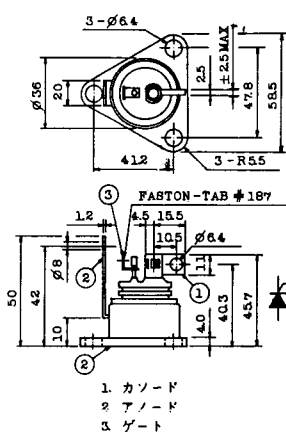
T-42 (13-45F1A)



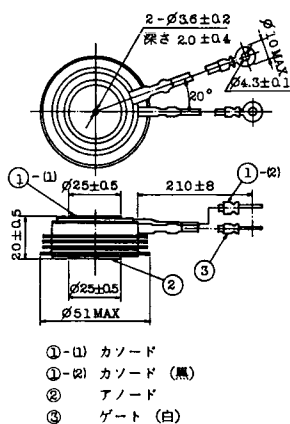
T-43 (13-60E2A)



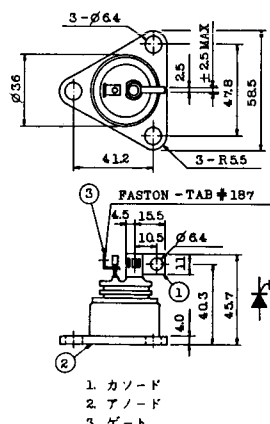
T-44 (13-36A1A)



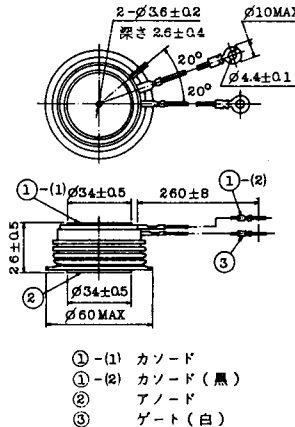
T-45 (13-51B1A)



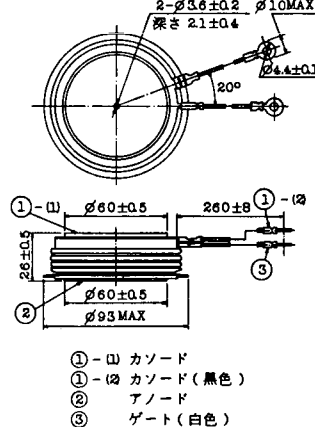
T-46 (13-36B1A)



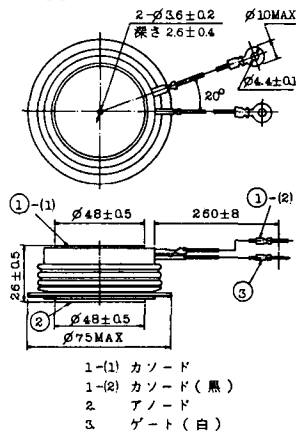
T-47 (13-60E1A)



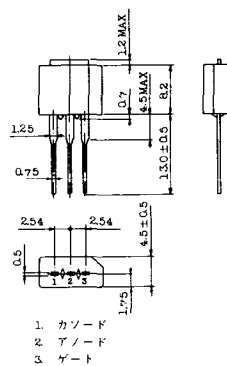
T-48 (13-93C1A)



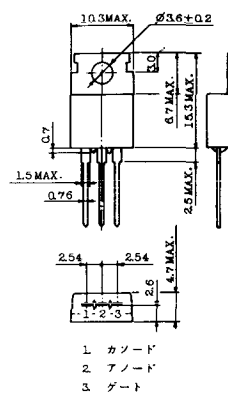
T-49 (13-75A1A)



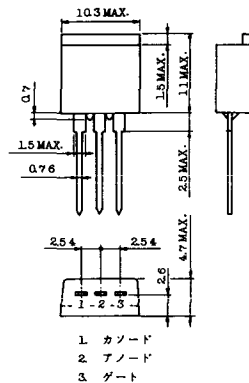
T-50 (13-10A3A)



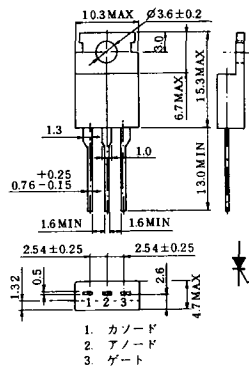
T-51 (13-10D1A)



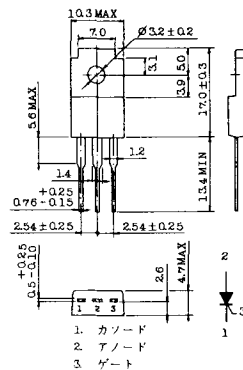
T-52 (13-10D2A)



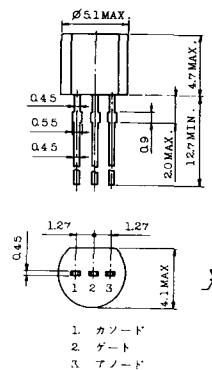
T-53 (13-10E1B)



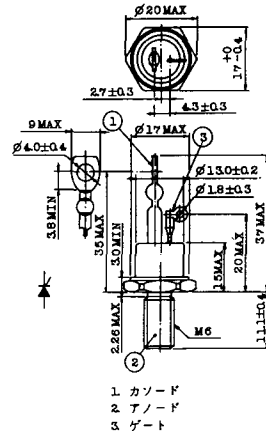
T-54 (13-10F1B)



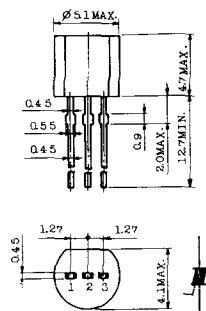
T-55 (13-5A1D)



T-56 (13-13C1A)

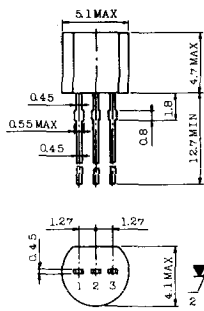


TT-1



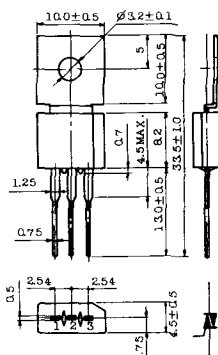
1. $\mathcal{G} - \mathcal{T}$
2. $\mathcal{T}_2$
3. $\mathcal{T}_1$

TT-2



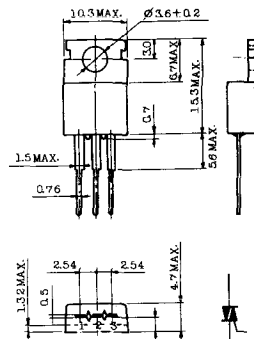
1. T_1
2. $\gamma - t$
3. T_2

TT-3



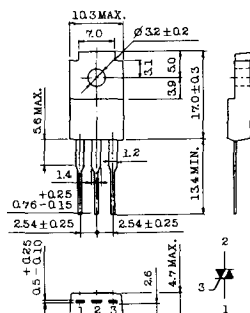
1. T_1
2. T_2
3. ゲート

TT-4



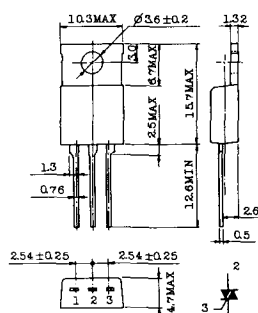
1. T_1
2. T_2
3. $\mathcal{G} - \mathcal{T}$

TT-5



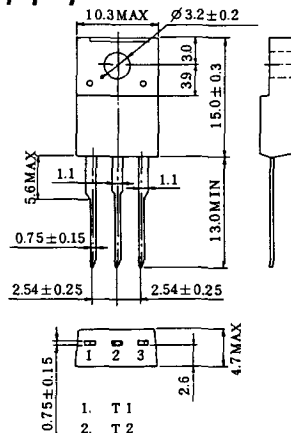
1. T1
2. T2
3. ケー ト

TT-6



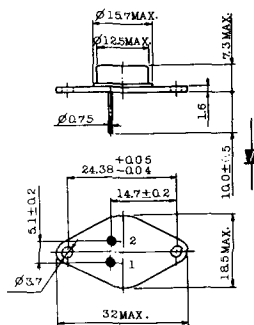
- 1 T1
- 2 T2 (放熱板)
- 3 ゲート

TT-7



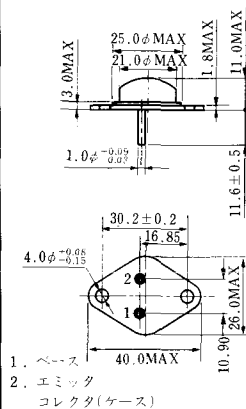
1. T 1
2. T 2
3. ゲート

TT-8

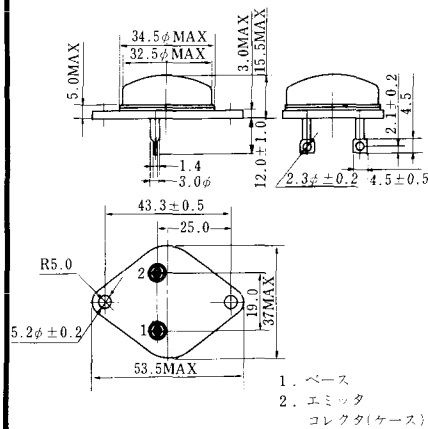


1. ゲート
2. T_1
 T_2 (ケース)

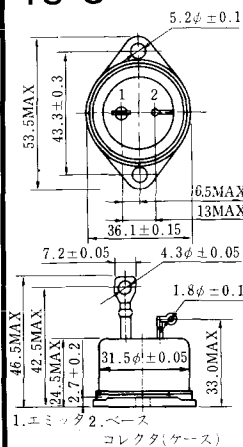
TS-1



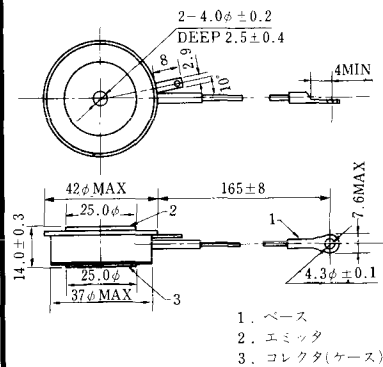
TS-2



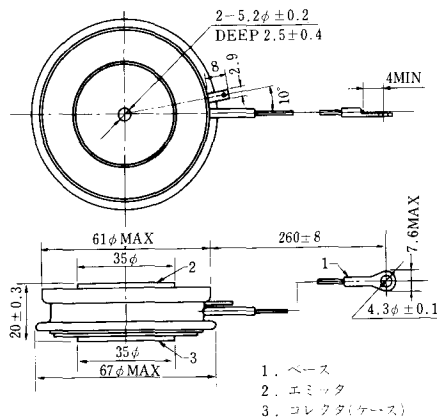
TS-3



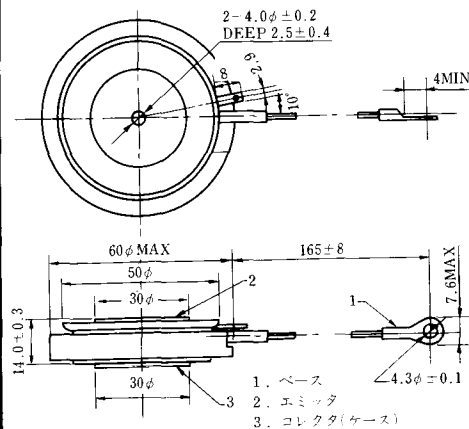
TS-4



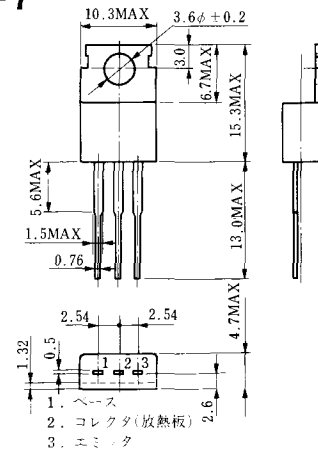
TS-5

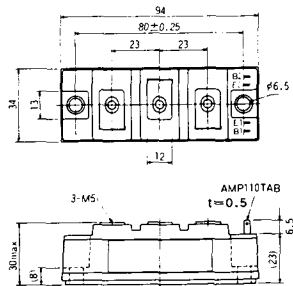
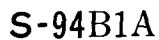
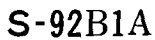
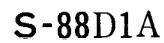
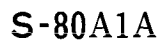


TS-6

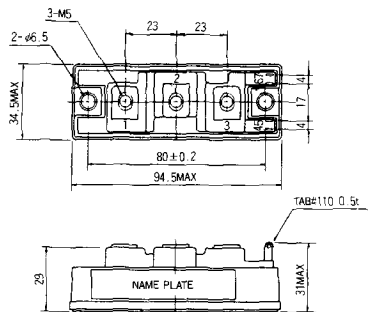


TS-7

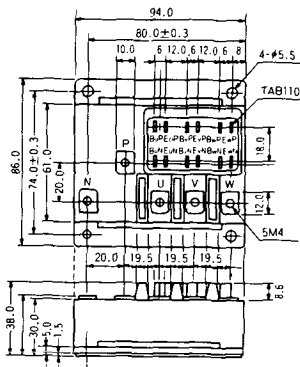




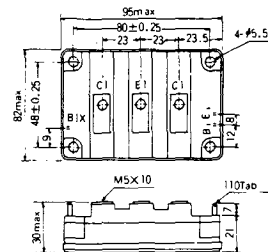
S-94B2A



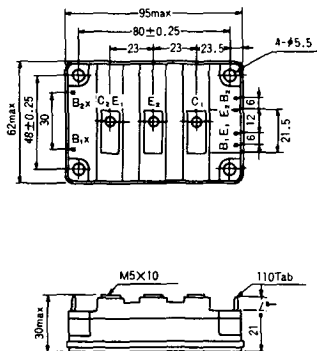
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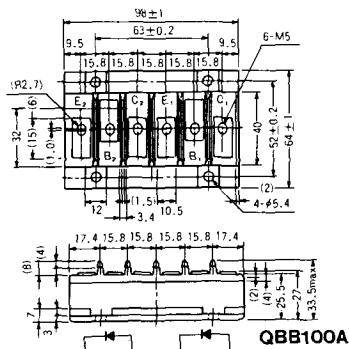
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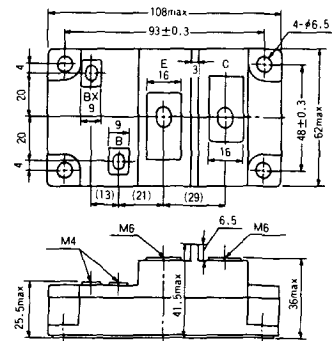
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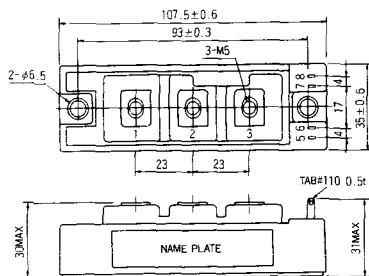
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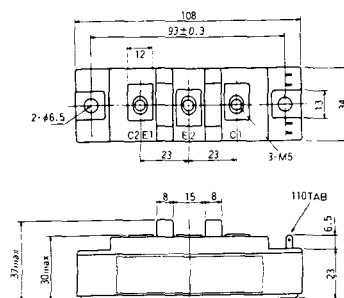
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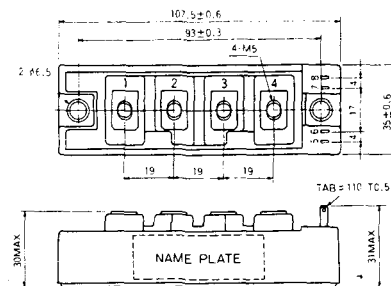
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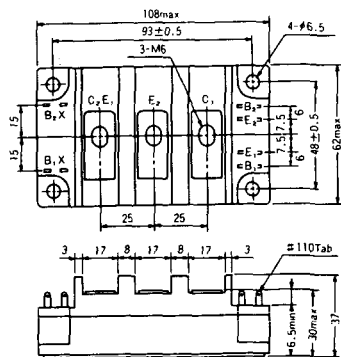
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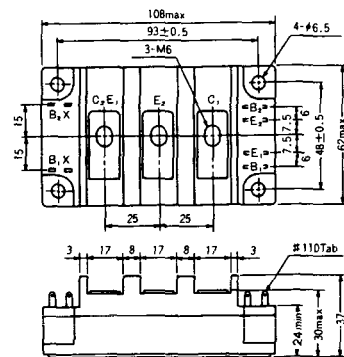
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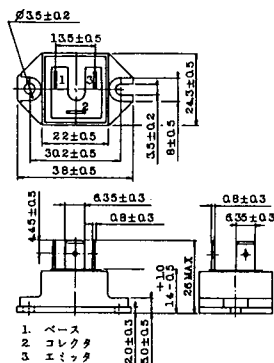
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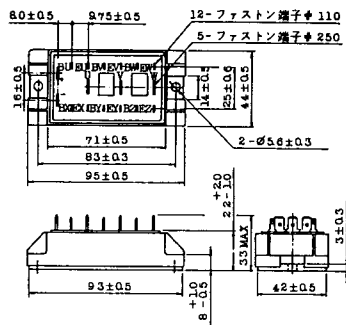
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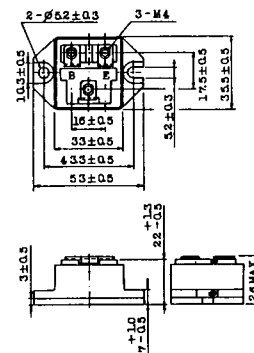
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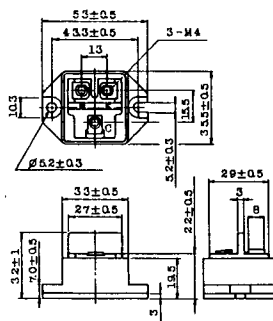
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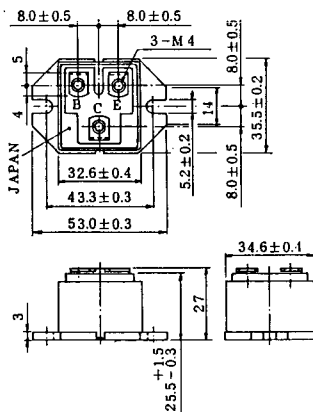
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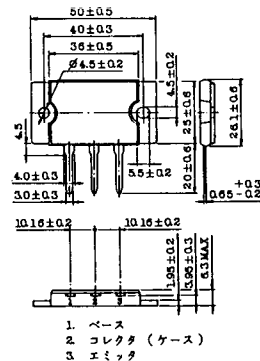
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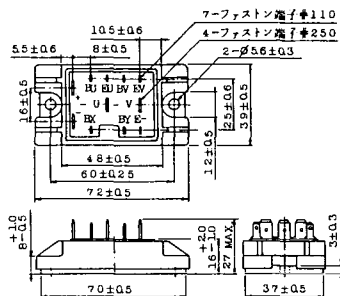
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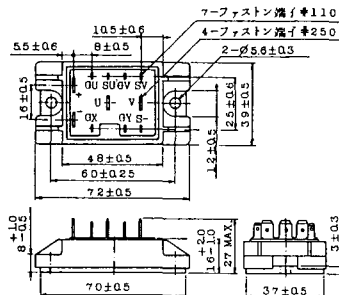
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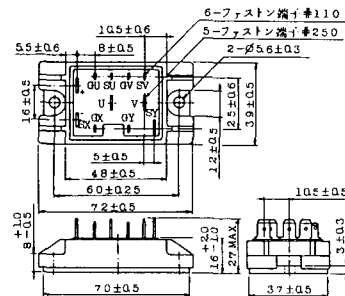
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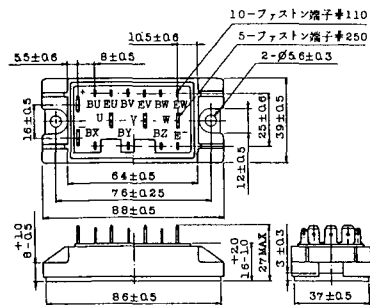
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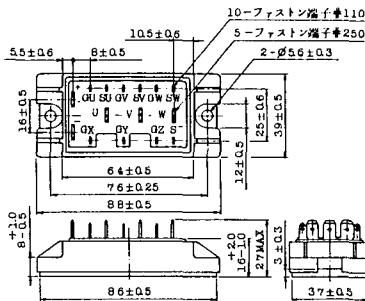
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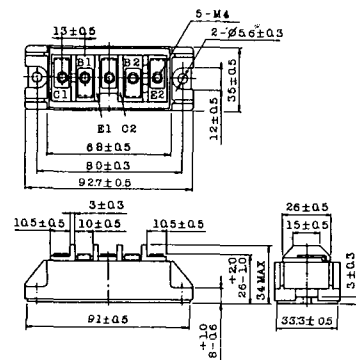
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2-64A2B

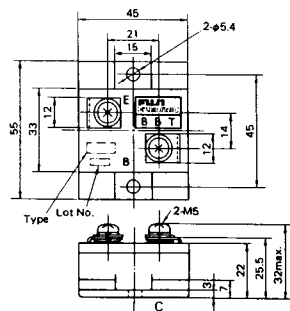


2-68A2A



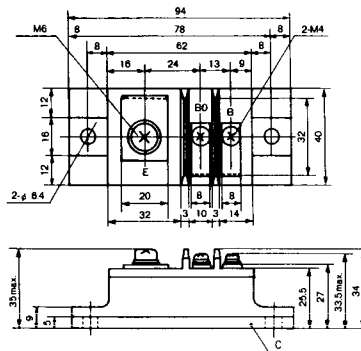
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BBTII
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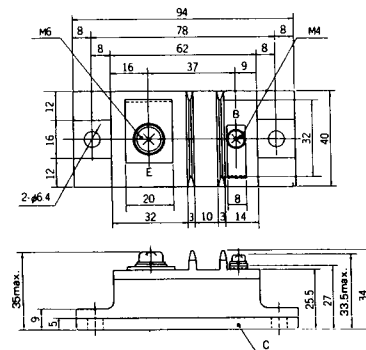
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BBTIII
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ETN36-030
ETN36-030
ETN35-030



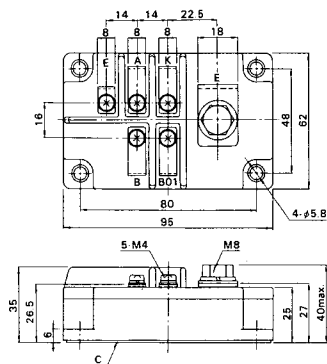
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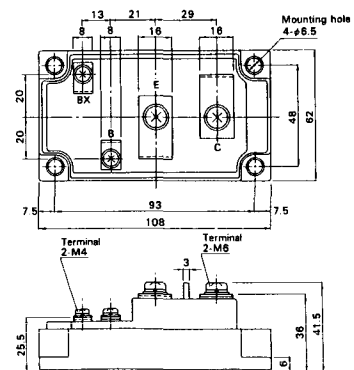
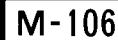
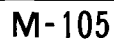
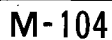
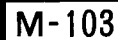
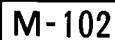
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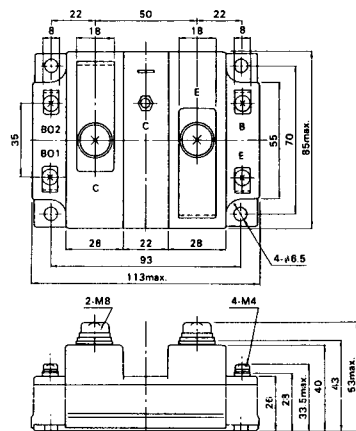
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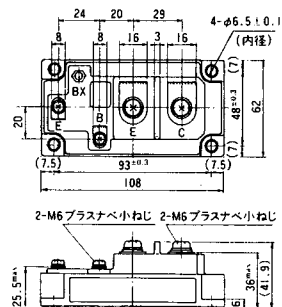




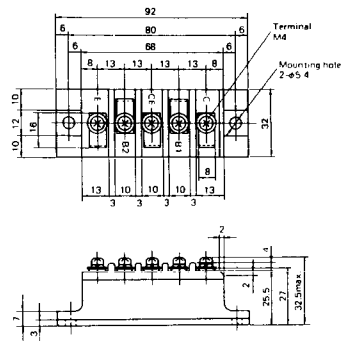
M-107



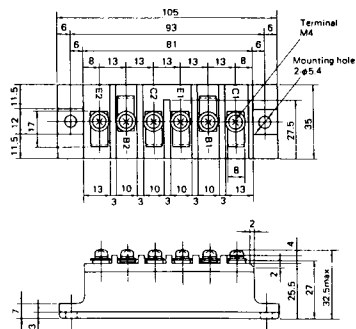
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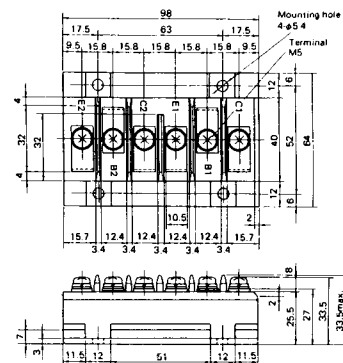
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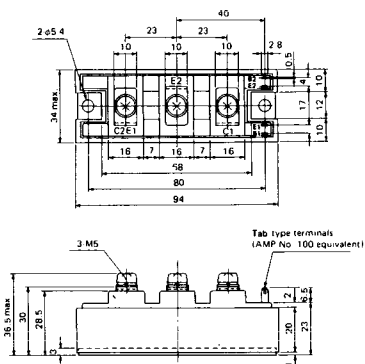
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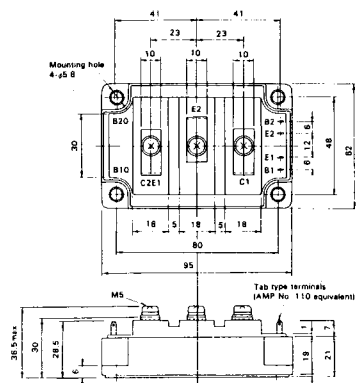
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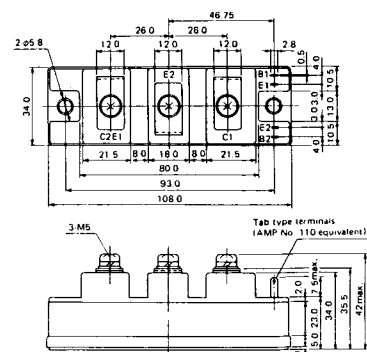
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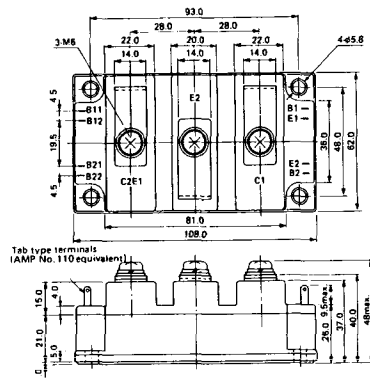
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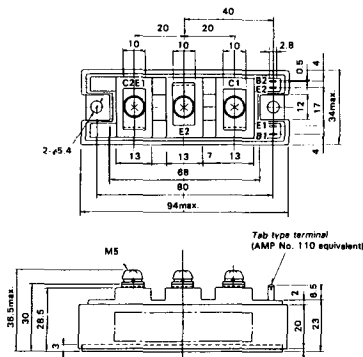
M-206



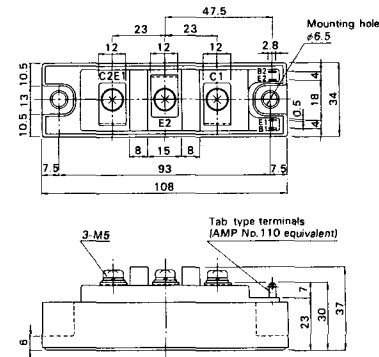
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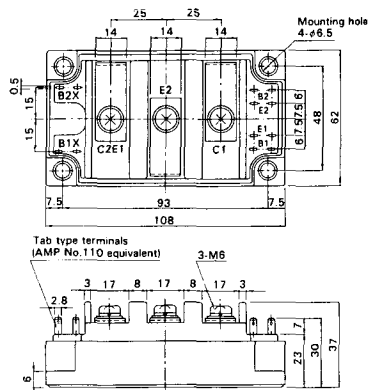
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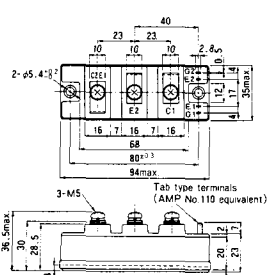
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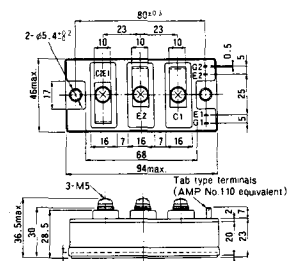
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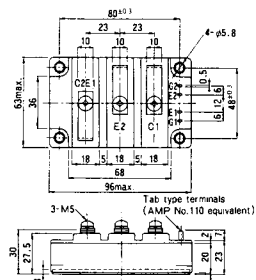
M-211



M-212

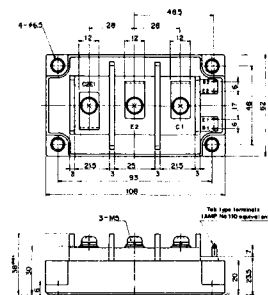


M-213

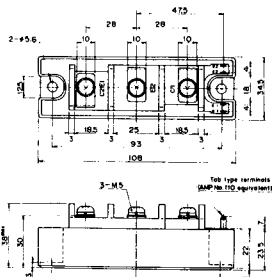


M-214

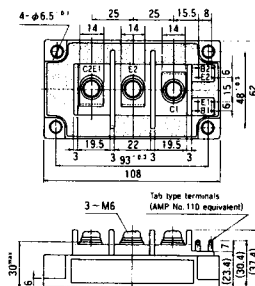
M-215



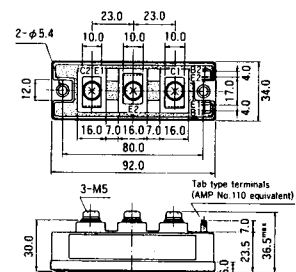
M-216



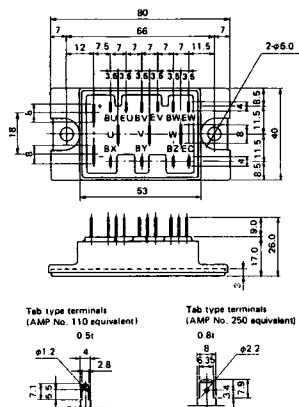
M-217



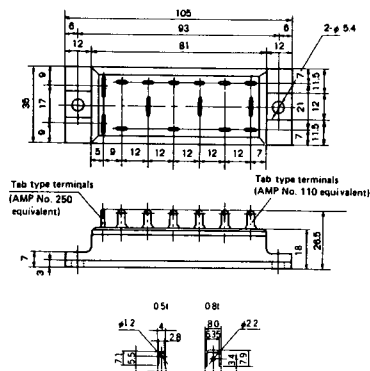
M-218



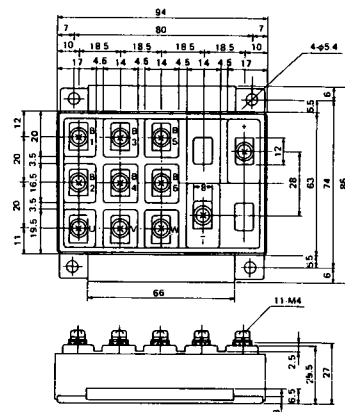
M-601



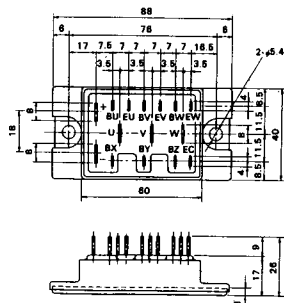
M-602



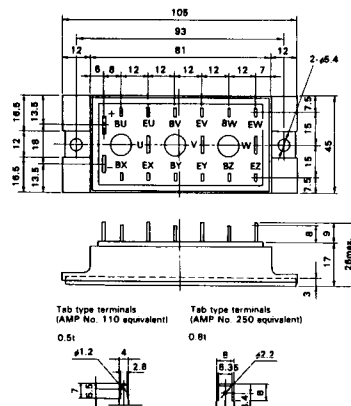
M-603



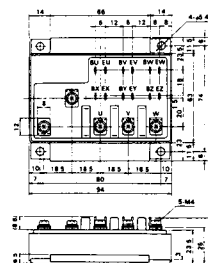
M-604



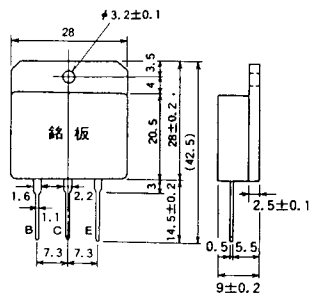
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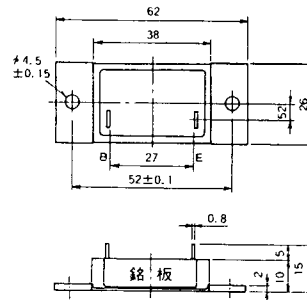
M-606



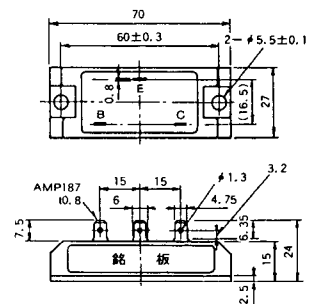
M-1A1A



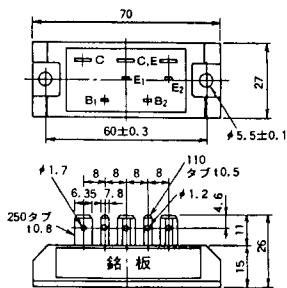
M-2A1A



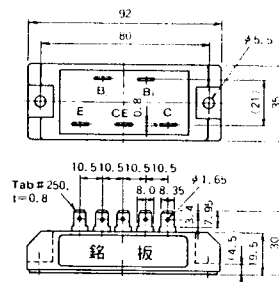
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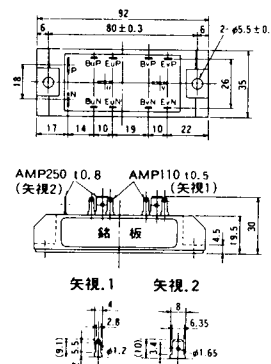
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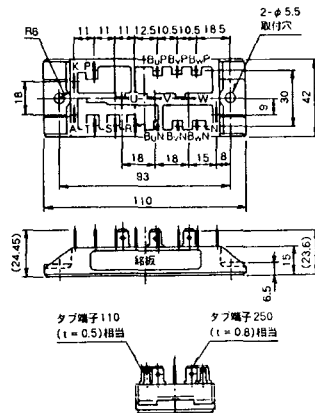
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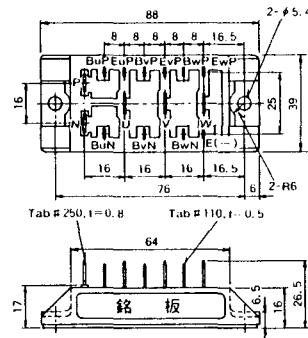
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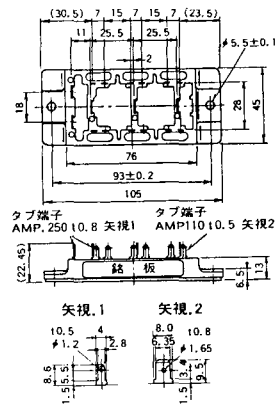
M-2E6A



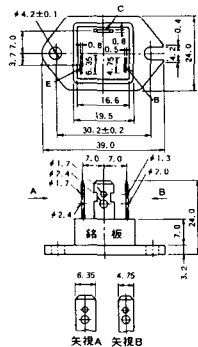
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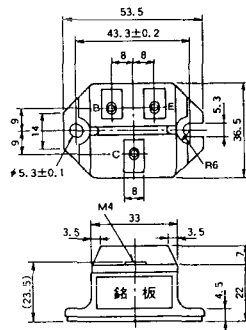
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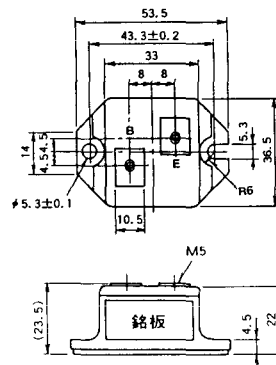
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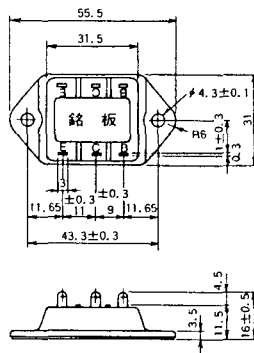
M-3B1A



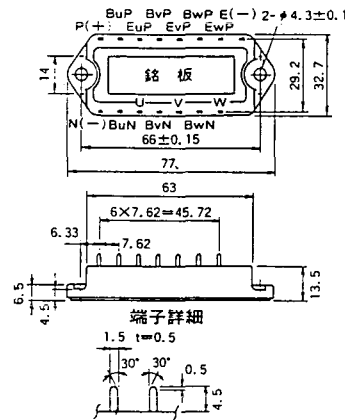
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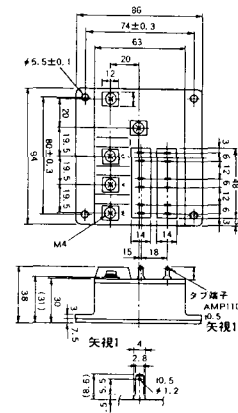
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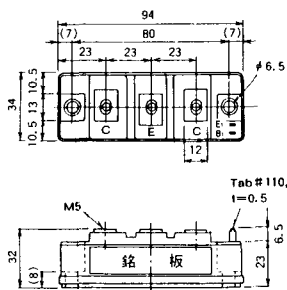
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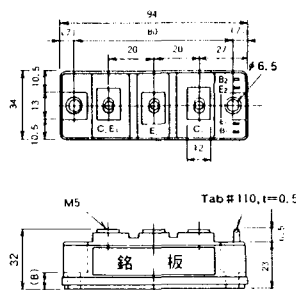
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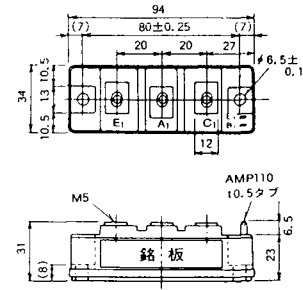
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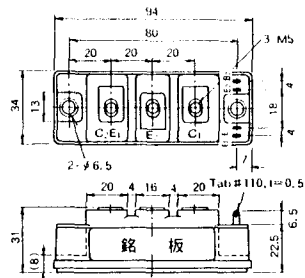
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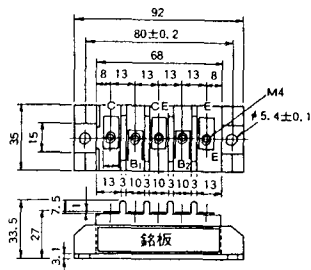
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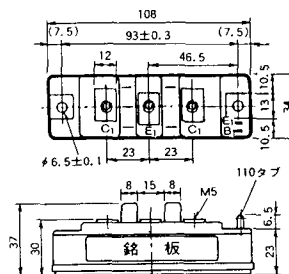
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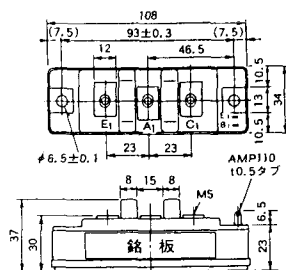
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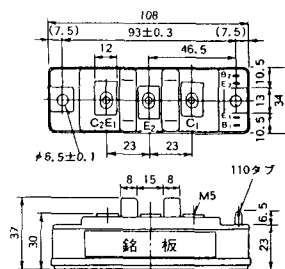
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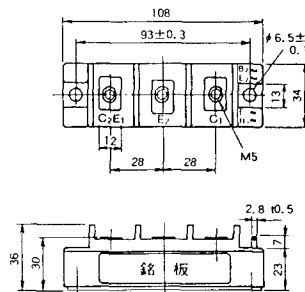
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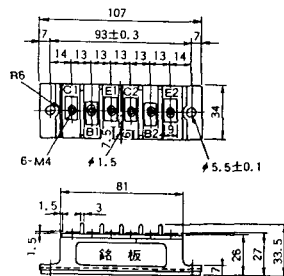
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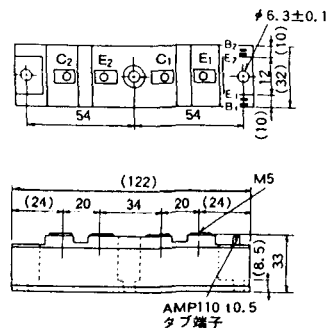
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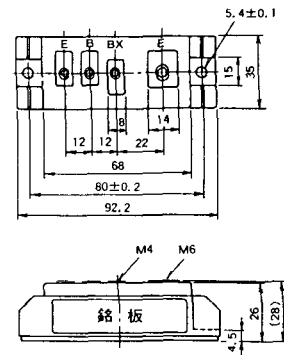
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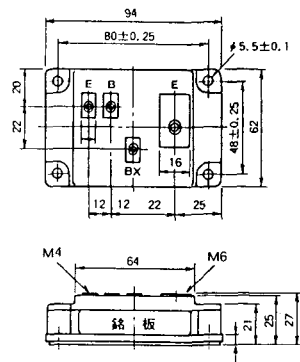
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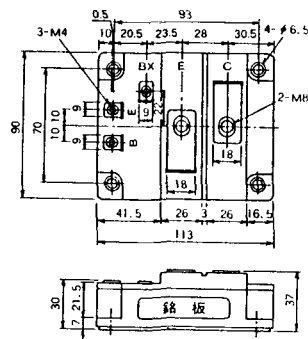
M-6A1A



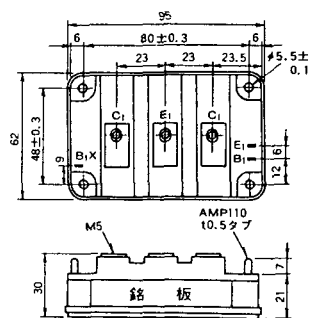
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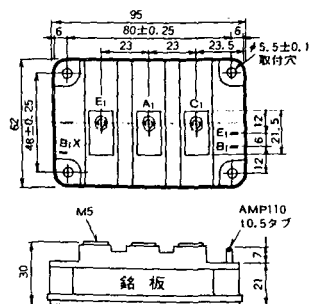
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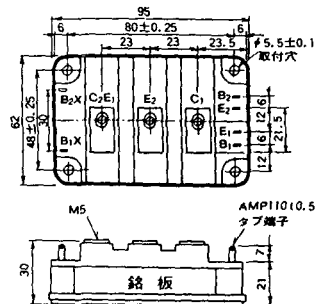
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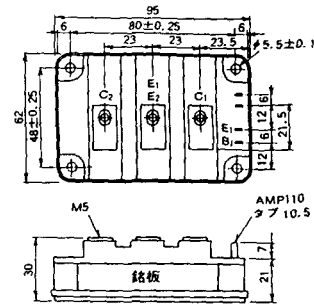
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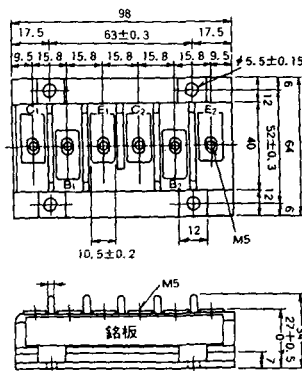
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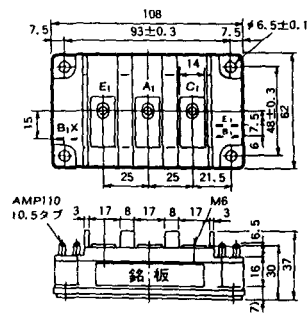
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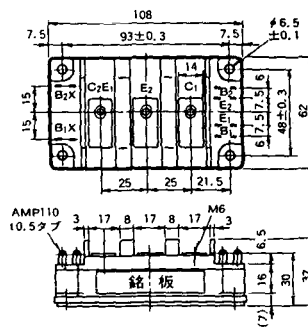
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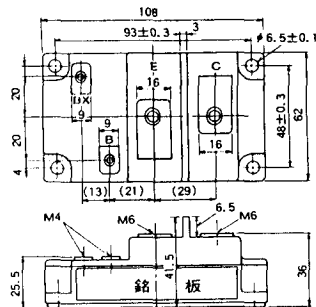
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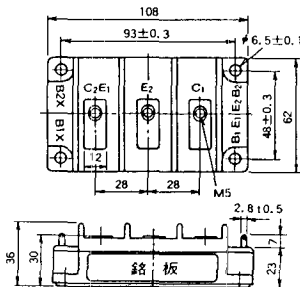
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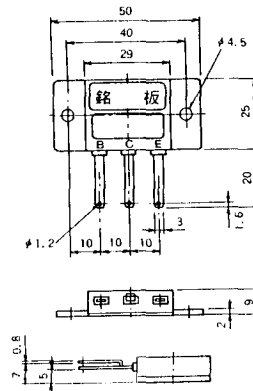
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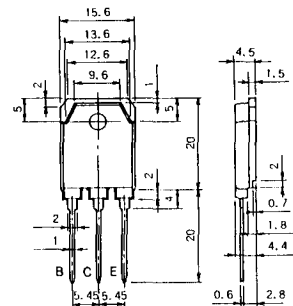
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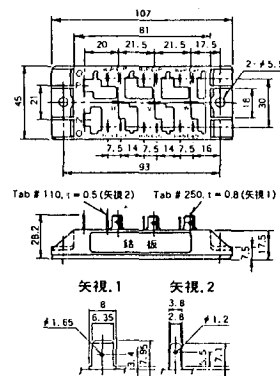
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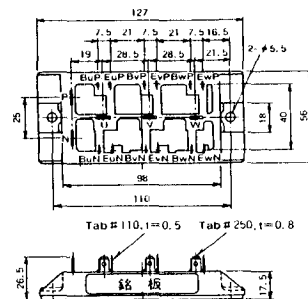
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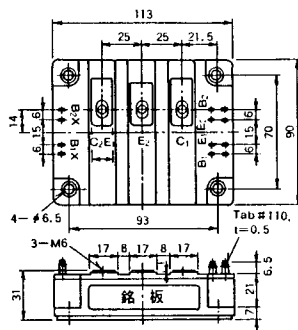
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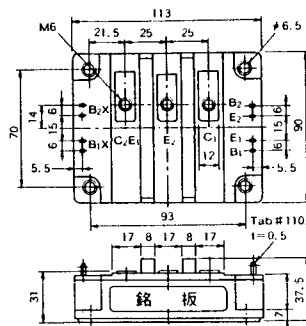
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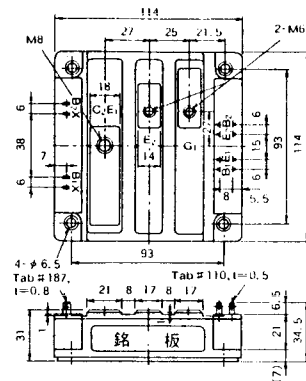
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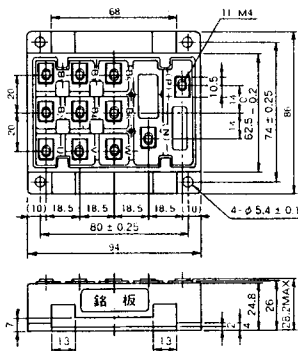
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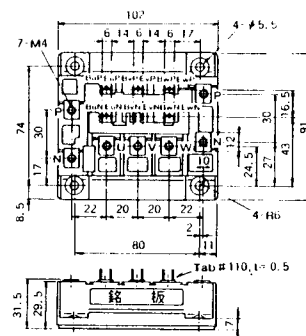
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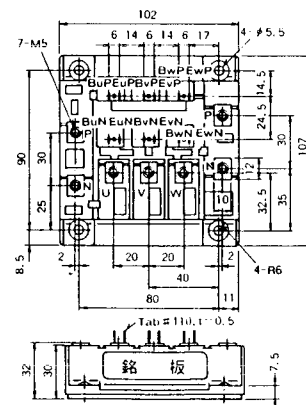
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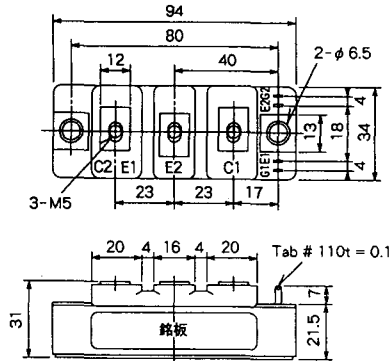
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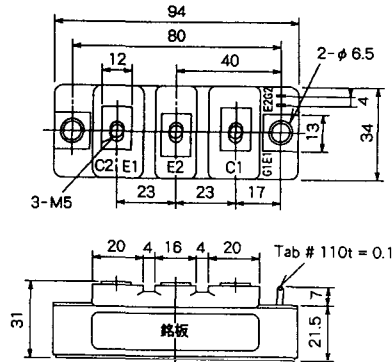
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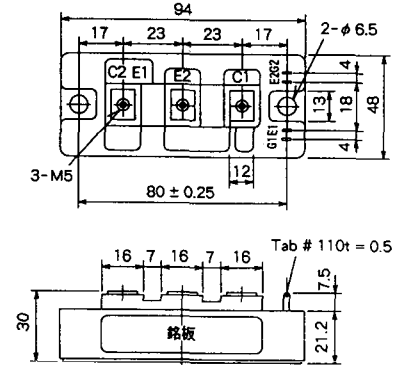
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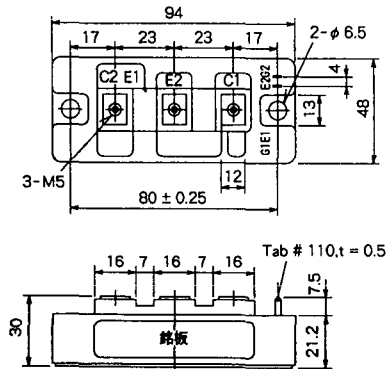
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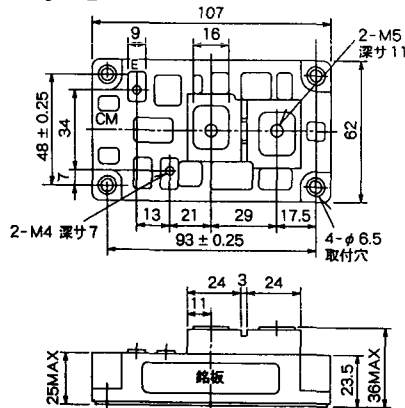
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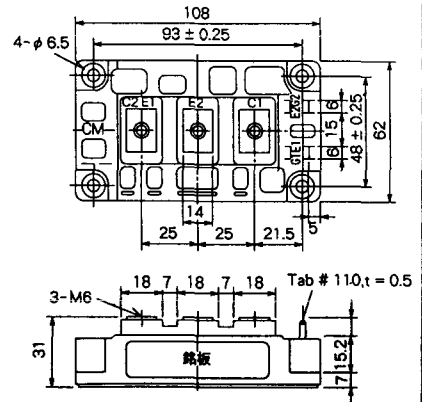
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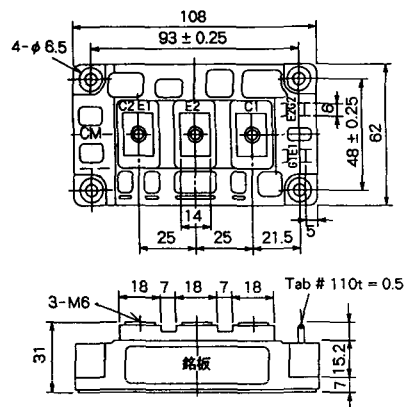
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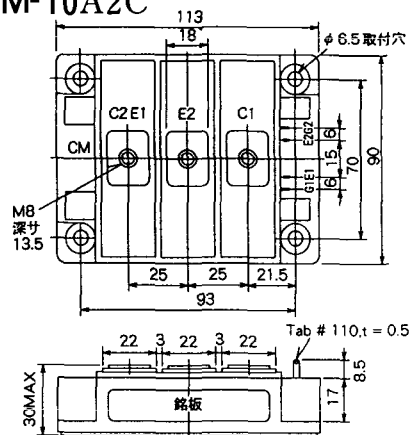
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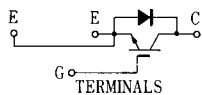
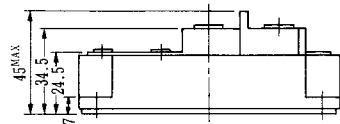
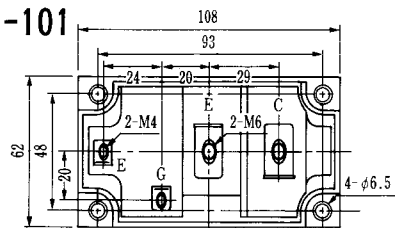
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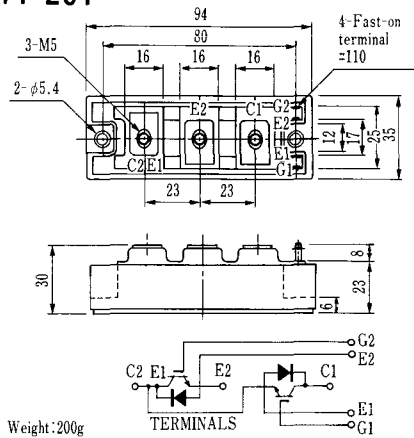
H-101



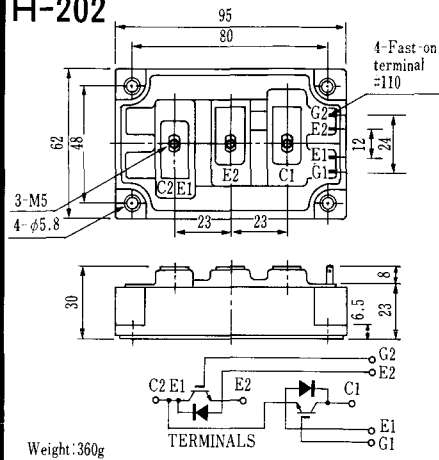
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TERMINALS

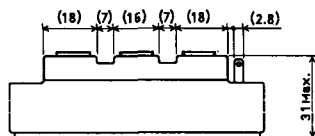
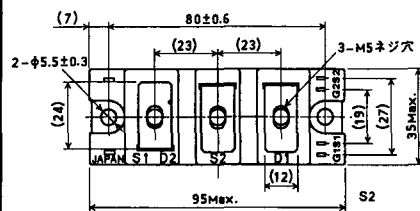
H-201



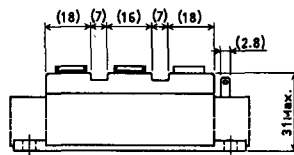
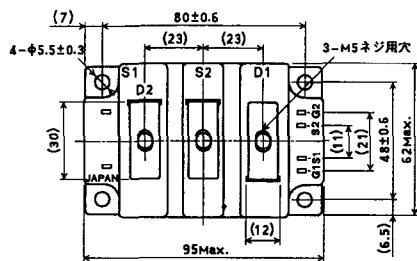
H-202



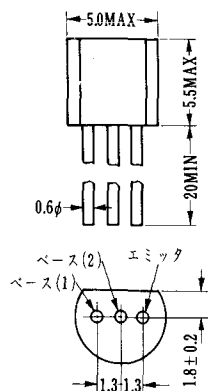
LF-J



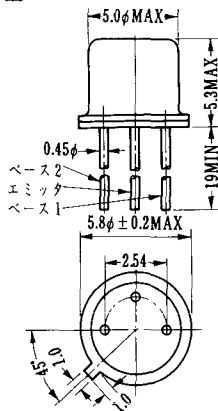
LF-K



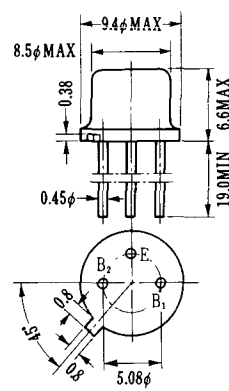
U-1



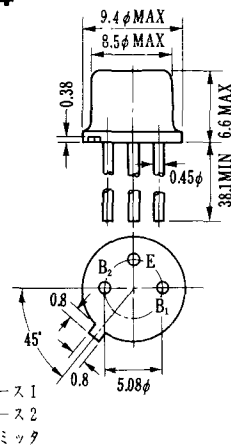
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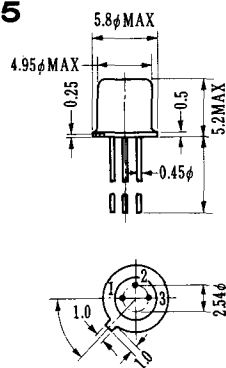
U-3



U-4

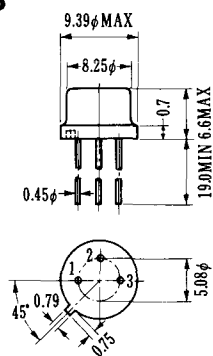


U-5



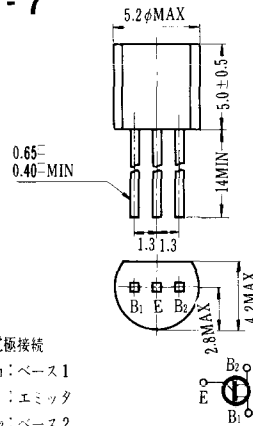
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



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

U-7



U-8

