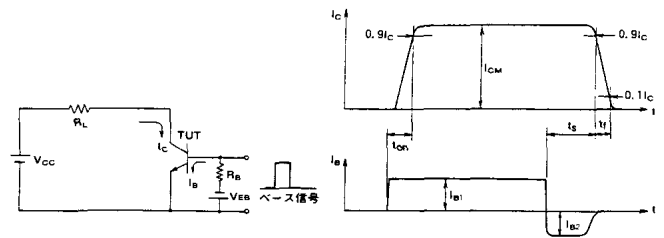


トランジスタ・モジュール (NPN, 単相/三相ブリッジ)

型 名	最 大 定 格 (T _J =25°C)											電 気 的 特 性											
	V _{CB0}	V _{CEX(SUS)}	V _{EB0}	I _c	I _B	I _F	I _{FM}	P _c	T _J	T _{stg}	V _{iso}	I _{CEX}	I _{EB0}		V _{CE0(SUS)}		h _{FE}		V _{CE}	I _c			
	(V)	(注1) (V)	(V)	(A)	(A)	(A)	(注2) (A)	(注3) (W)	(°C)	(°C)	(V)	(mA)	V _{CE} (V)	V _{EB} (V)	(mA)	V _{EB} (V)	(V)	I _c (A)	最 小	最 小	(V)	(A)	
QM20TD-HB	600	600	7	20	1.0	20	200	83	150	-40~125	2500	1	600	2	40	7			250	2	20		
QM20KD-HB	600	600	7	20	1.0	20	200	83	150	-40~125	2500	1	600	2	40	7			250	2	20		
QM30TB-2H	1000	1000	7	30	2.0	30	300	310	150	-40~125	2500	1	1000	2	200	7			75/100	2.8/5	30		
QM30TB-2HB	1000	1000	7	30	2.0	30	300	310	150	-40~125	2500	2	1000	2	50	7			750	4	30		
QM30TB-24	1200	1200	7	30	2.0	30	300	310	150	-40~125	2500	1	1200	2	200	7			75	5	30		
QM30TF-HB	600	600	7	30	1.8	30	300	250	150	-40~125	2500	1	600	2	60	7			750	2.5	30		
QM30TX-H	600	600	7	30	1.8	30	300	250	150	-40~125	2500	1	600	2	200	7			75/100	2/5	30		
QM50TB-2H	1000	1000	7	50	3.0	50	500	400	150	-40~125	2500	1	1000	2	200	7			75/100	2.8/5	50		
QM50TB-2HB	1000	1000	7	50	3.0	50	500	400	150	-40~125	2500	2	1000	2	50	7			750	4	50		
QM50TB-24	1200	1200	7	50	3.0	50	500	400	150	-40~125	2500	1	1200	2	200	7			75	5	50		
QM50TF-HB	600	600	7	50	3.0	50	500	310	150	-40~125	2500	1	600	2	80	7			750	2.5	50		
QM50TX-H	600	600	7	50	3.0	50	500	310	150	-40~125	2500	1	600	2	200	7			75/100	2/5	50		
QM75TF-HB	600	600	7	75	4.5	75	750	350	150	-40~125	2500	1	600	2	75	7			750	2.5	75		
QM75TX-H	600	600	7	75	4.5	75	750	350	150	-40~125	2500	1	600	2	200	7			75/100	2/5	75		
QM100TF-HB	600	600	7	100	6.0	100	1000	620	150	-40~125	2500	2	600	2	100	7			750	2.5	100		

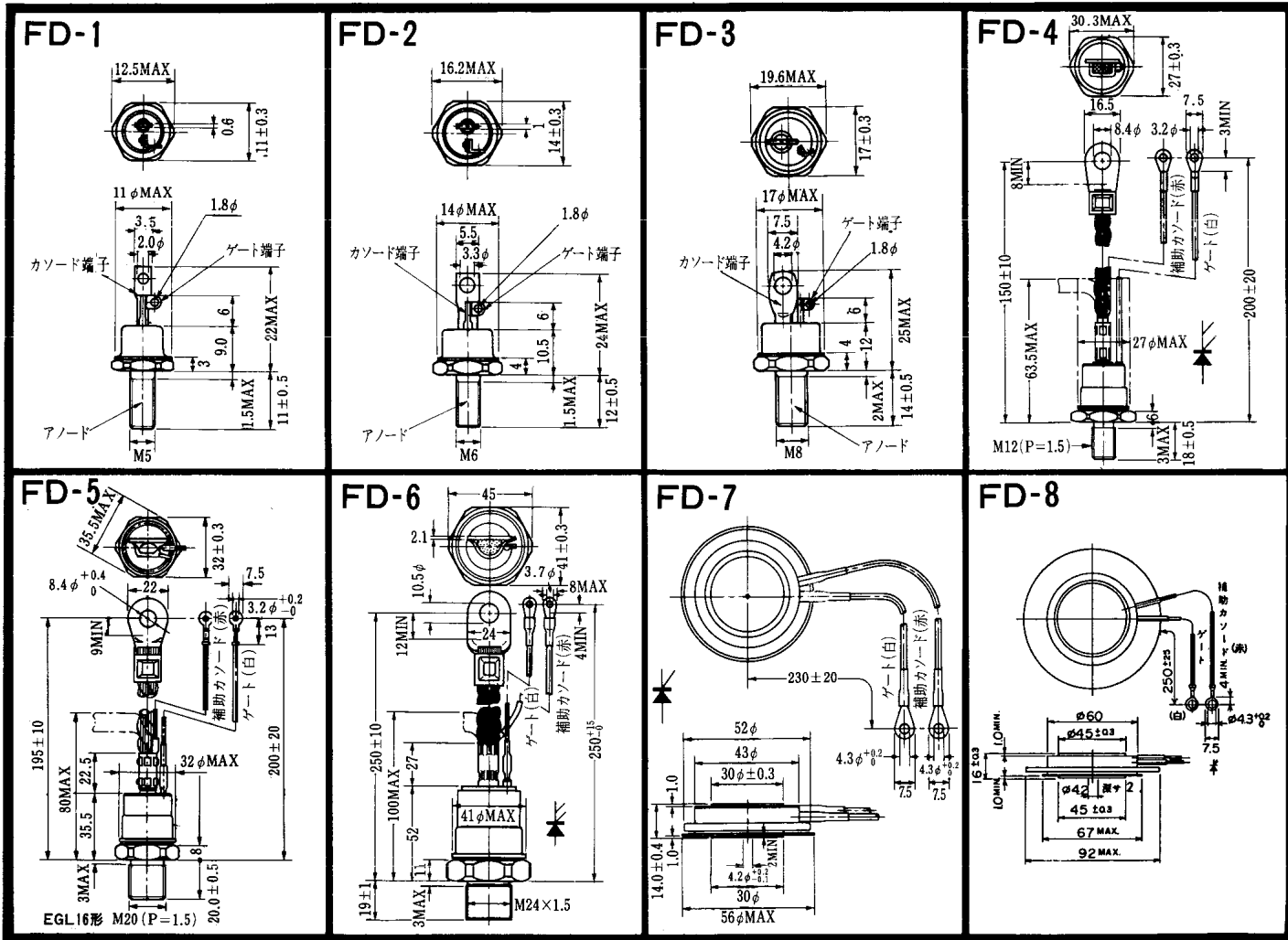
<http://store.iic.cc/>

■スイッチング時間測定回路



(Tj=25°C)										エミッタ・コレクタ間ダイオード						熱抵抗		等価回路	外形図	記 事	型 名	
飽和電圧 (V)		Ic (A)	Ib (A)	スイッチング時間 (μs)			Ib1 (A)	Ib2 (A)	Vcc (V)	Ic (A)	VF (V)	IF (A)	trr (μs)	IF (A)	VBE (V)	di/dt (A/μs)	θj-c (°C/W)					
Vce 最大	VBE 最大			toss 最大	trre 最大	trf 最大											トランジスタ部 最大					ダイオード部 最大
2.0	2.5	20	0.08	1.5	12	2.0	0.12	-0.4	300	20	1.5	20					1.5	2.5	TA-1A	M-2G6B	UL認定済	QM20TD-HB
2.0	2.5	20	0.08	1.5	12	2.0	0.12	-0.4	300	20	1.5	20					1.5	2.5	KD-1A	M-2E6A	UL認定済	QM20KD-HB
2.5	3.5	30	0.6	2.5	15	3.0	0.6	-0.6	600	30	1.8	30					0.4	1.5	TA-1A	M-2E6C	UL認定済	QM30TB-2H
4.0	4.0	30	0.04	2.5	15	3.0	0.06	-0.6	600	30	1.8	30					0.4	1.5	TA-1A	M-2E6C	UL認定済	QM30TB-2HB
3.0	3.5	30	0.6	2.5	15	3.0	0.6	-0.6	600	30	1.8	30					0.4	1.5	TA-1A	M-2E6C	UL認定済	QM30TB-2A
2.5	3.0	30	0.04	2.0	8.0	3.0	0.06	-0.6	300	30	1.8	30					0.5	2.0	TA-1A	M-2E6B	UL認定済	QM30TF-HB
2.0	2.5	30	0.4	1.5	12	3.0	0.6	-0.6	300	30	1.85	30					0.5	2.0	TX-1A	M-12A6A		QM30TX-H
2.5	3.5	50	1.0	2.5	15	3.0	1.0	-1.0	600	50	1.8	50					0.31	1.2	TA-1C	M-12B6A		QM50TB-2H
4.0	4.0	50	0.067	2.5	15	3.0	0.1	-1.0	600	50	1.8	50					0.31	1.2	TA-1C	M-12B6A		QM50TB-2HB
3.0	3.5	50	1.0	2.5	15	3.0	1.0	-1.0	600	50	1.8	50					0.31	1.2	TA-1C	M-12B6A		QM50TB-2A
2.5	3.0	50	0.067	2.0	8.0	3.0	0.1	-1.0	300	50	1.8	50					0.4	1.3	TA-1C	M-12B6A		QM50TF-HB
2.0	2.5	50	0.65	1.5	12	3.0	1.0	-1.0	300	50	1.75	50					0.4	1.3	TX-1A	M-12A6A		QM50TX-H
2.5	3.0	75	0.1	2.0	8.0	3.0	0.15	-1.5	300	75	1.8	75					0.35	1.3	TA-1C	M-12B6A		QM75TF-HB
2.0	2.5	75	1.0	2.5	12	3.0	1.5	-1.5	300	75	1.85	75					0.35	1.3	TX-1A	M-12A6A		QM75TX-H
2.5	3.5	100	0.13	2.5	10	2.0	0.2	-2.0	300	100	1.8	100					0.2	0.65	TA-1C	M-12B6B		QM100TF-HB

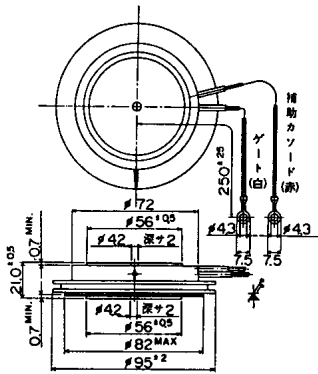
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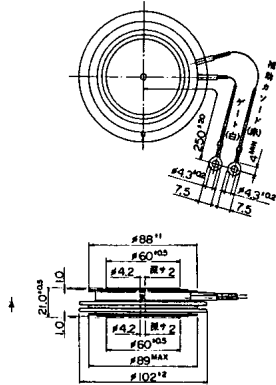
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〈寸法図単位:mm〉

FD-9

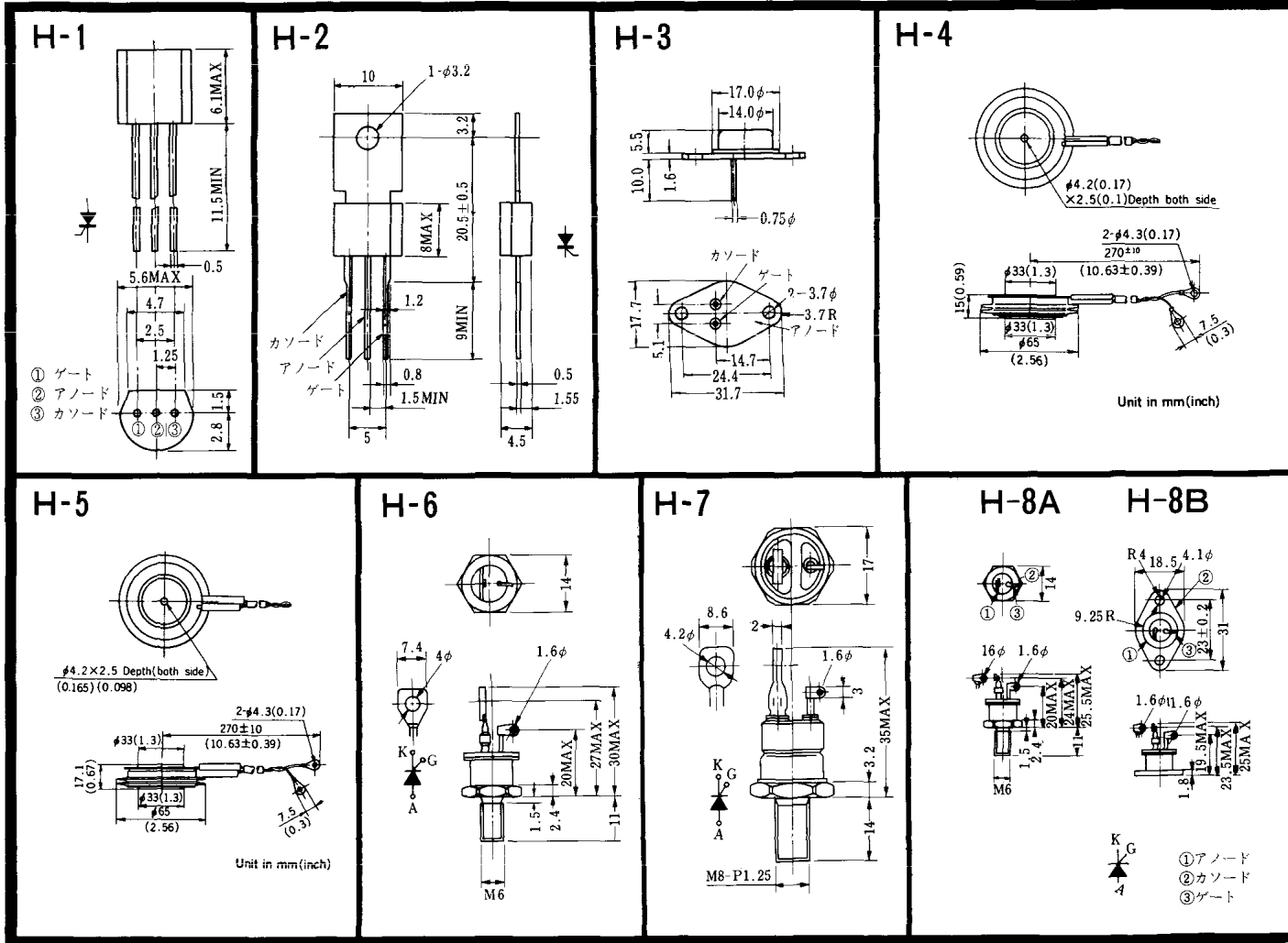


FD-10



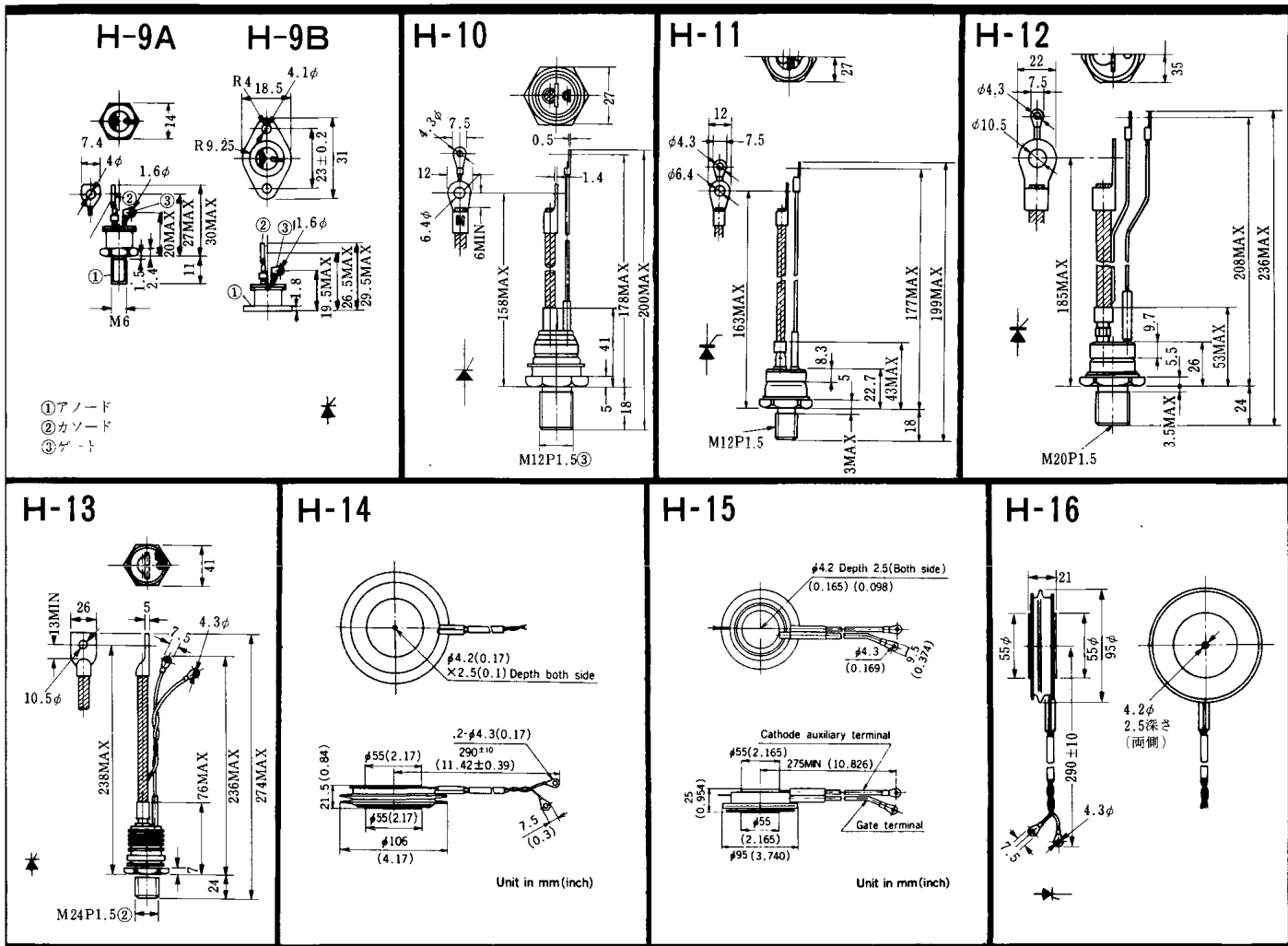
FD-11

FD-12



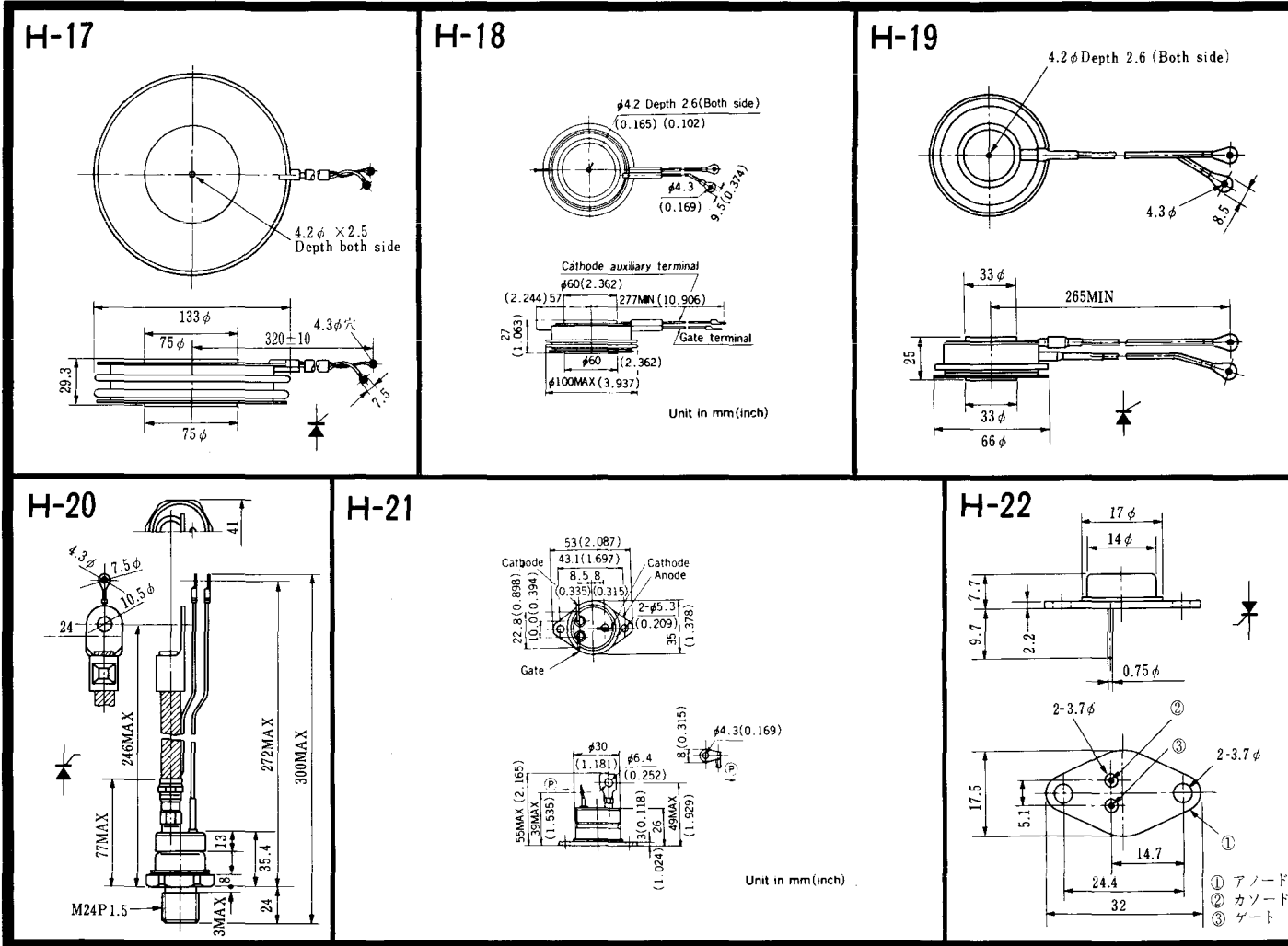
〈寸法図単位：mm〉

<http://store.iicc.cc/>



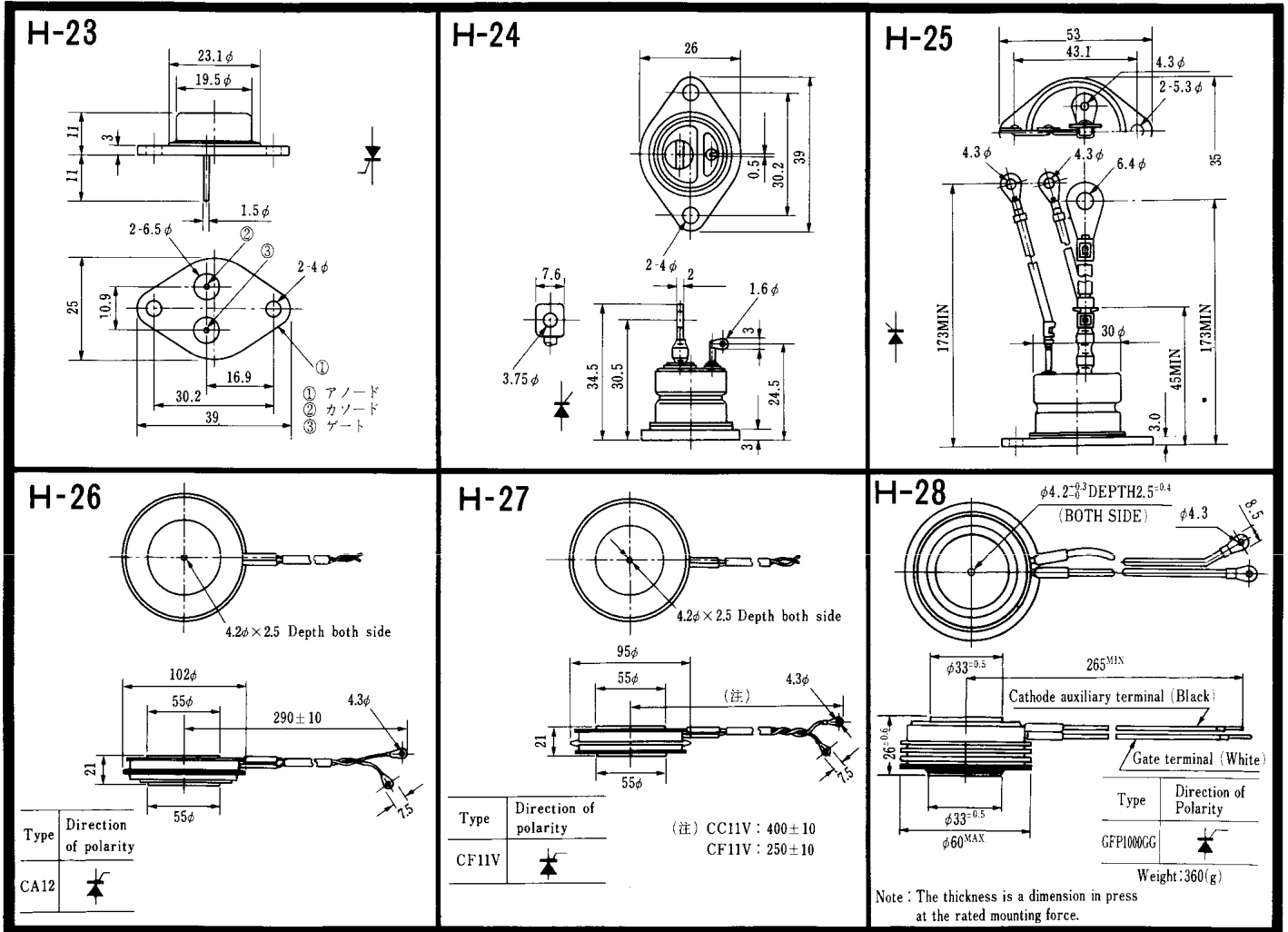
《寸法図単位：mm》

<http://store.iicc.cc/>



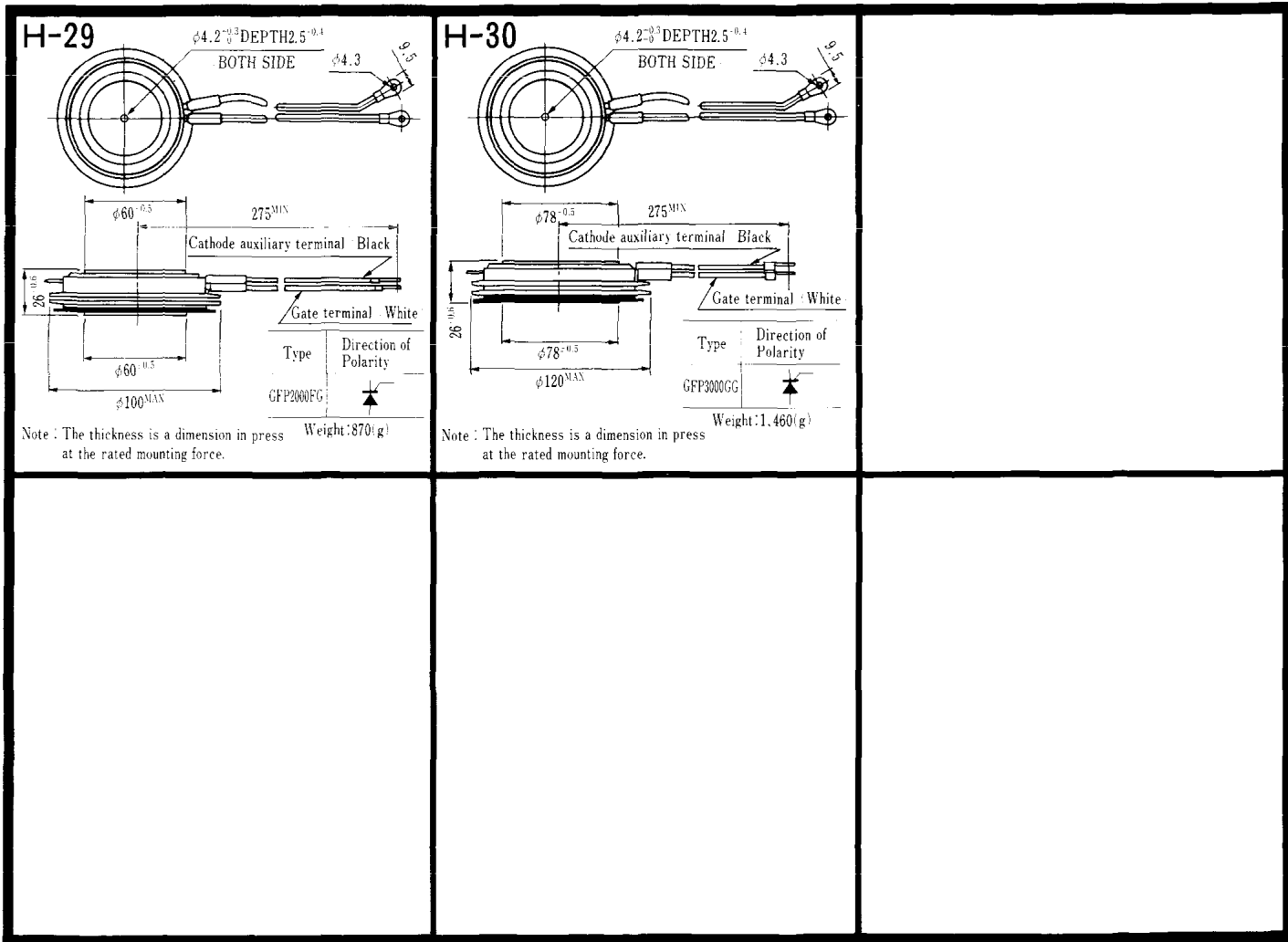
《寸法図単位：mm》

<http://store.iic.cc/>



《寸法図単位：mm》

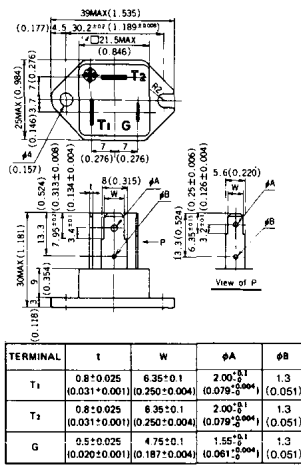
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<寸法図単位:mm>

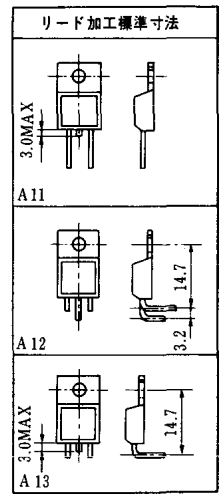
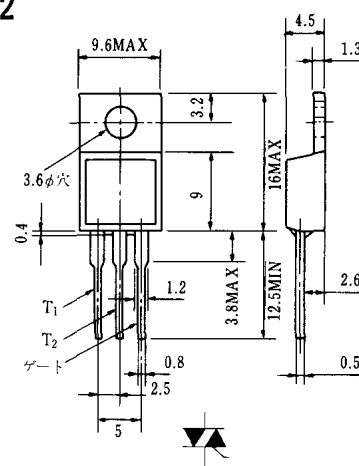
<http://store.iic.cc/>

HT-1

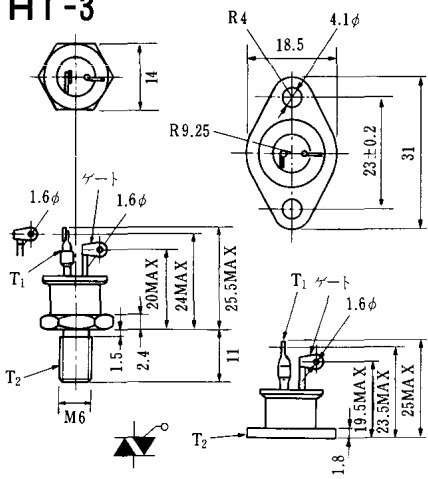


Unit in mm (inch)

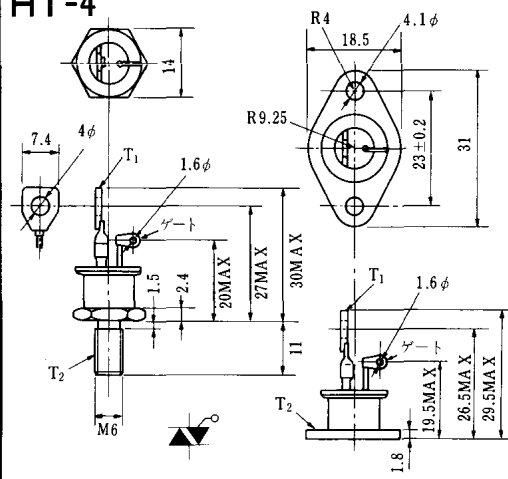
HT-2



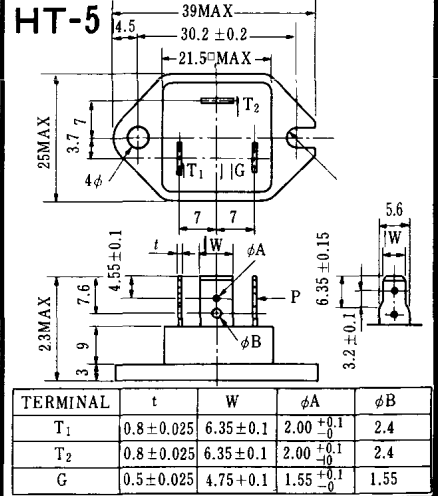
HT-3



HT-4

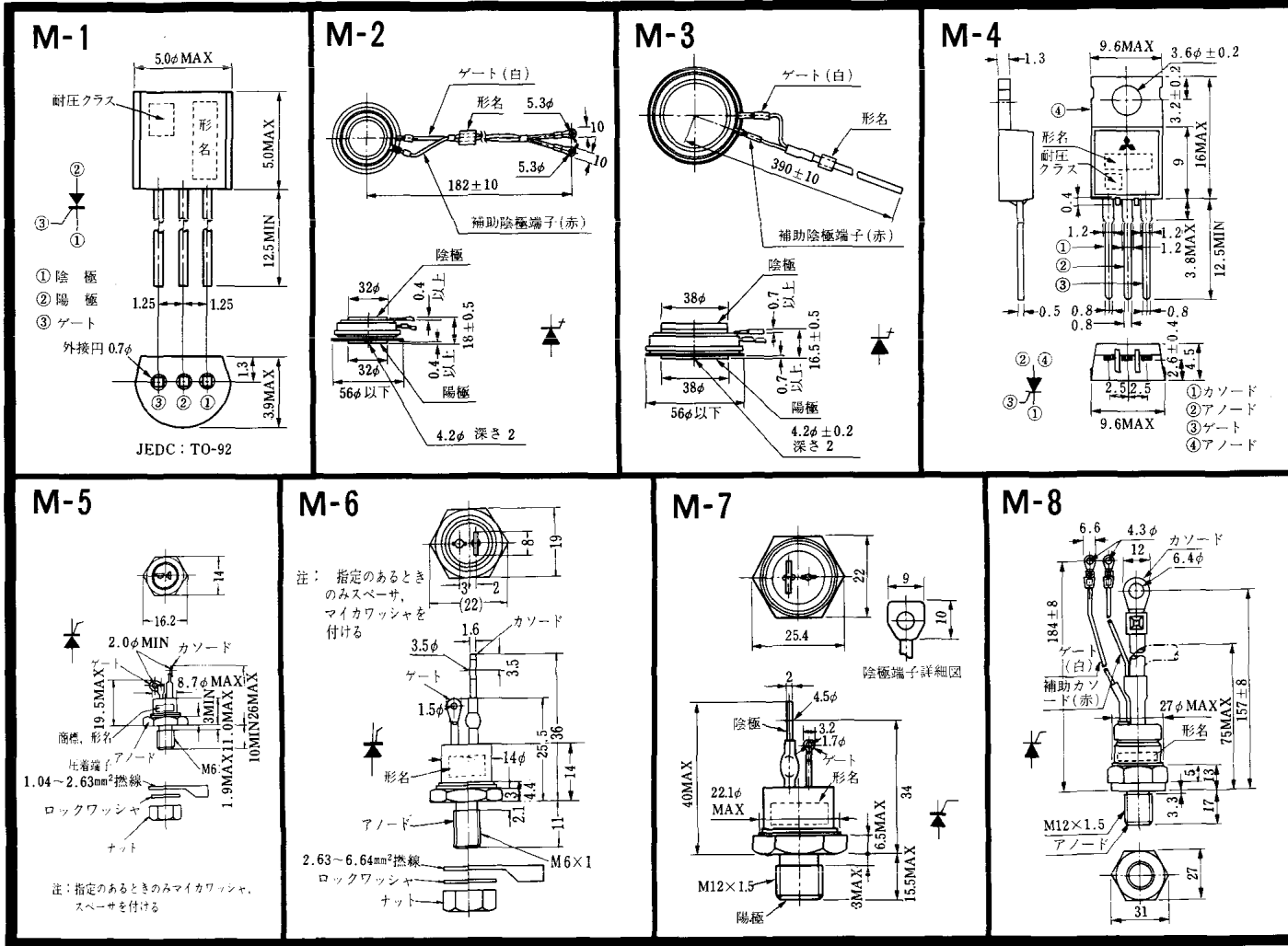


HT-5



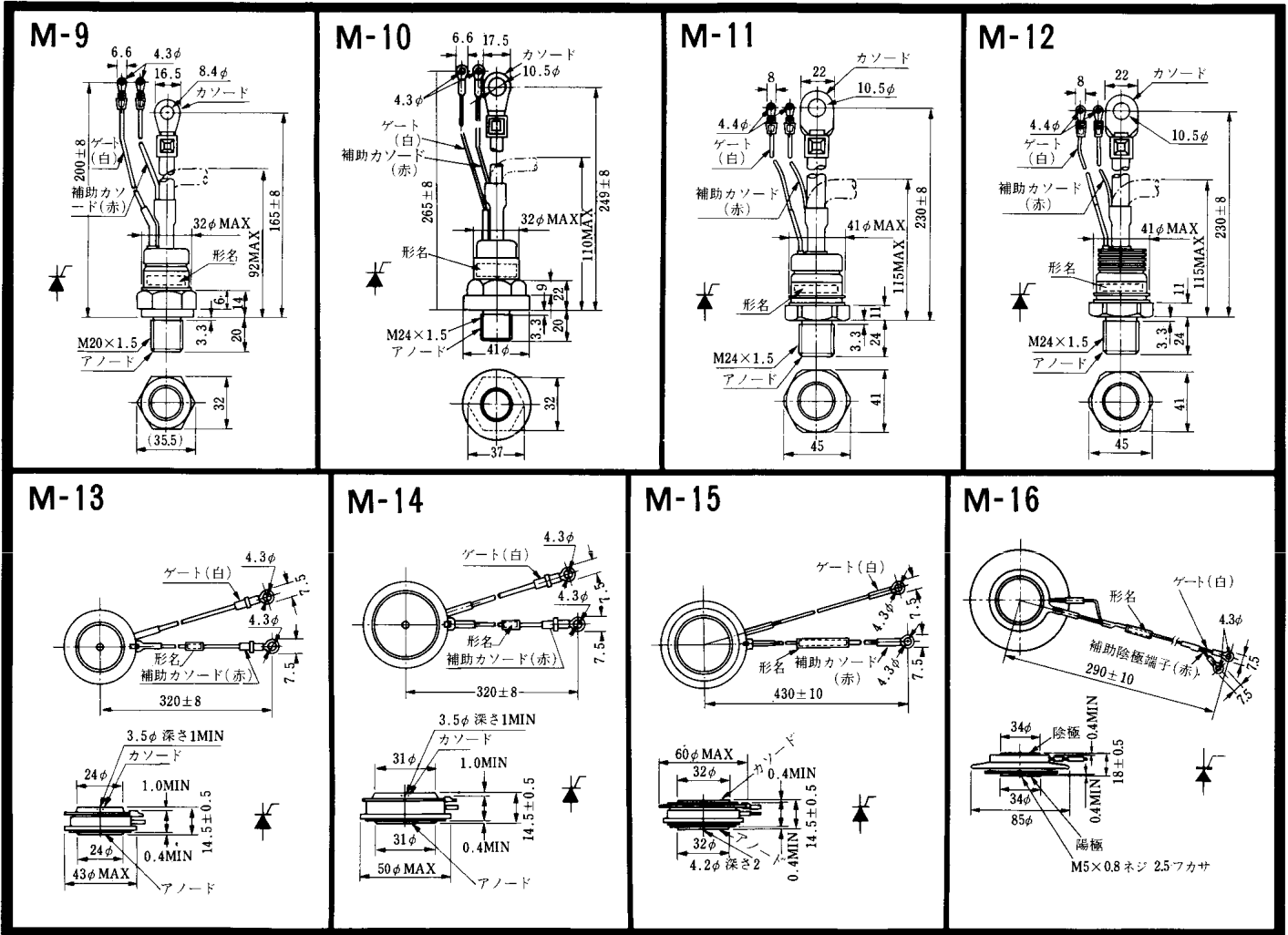
《寸法図単位：mm》

<http://store.iic.cc/>



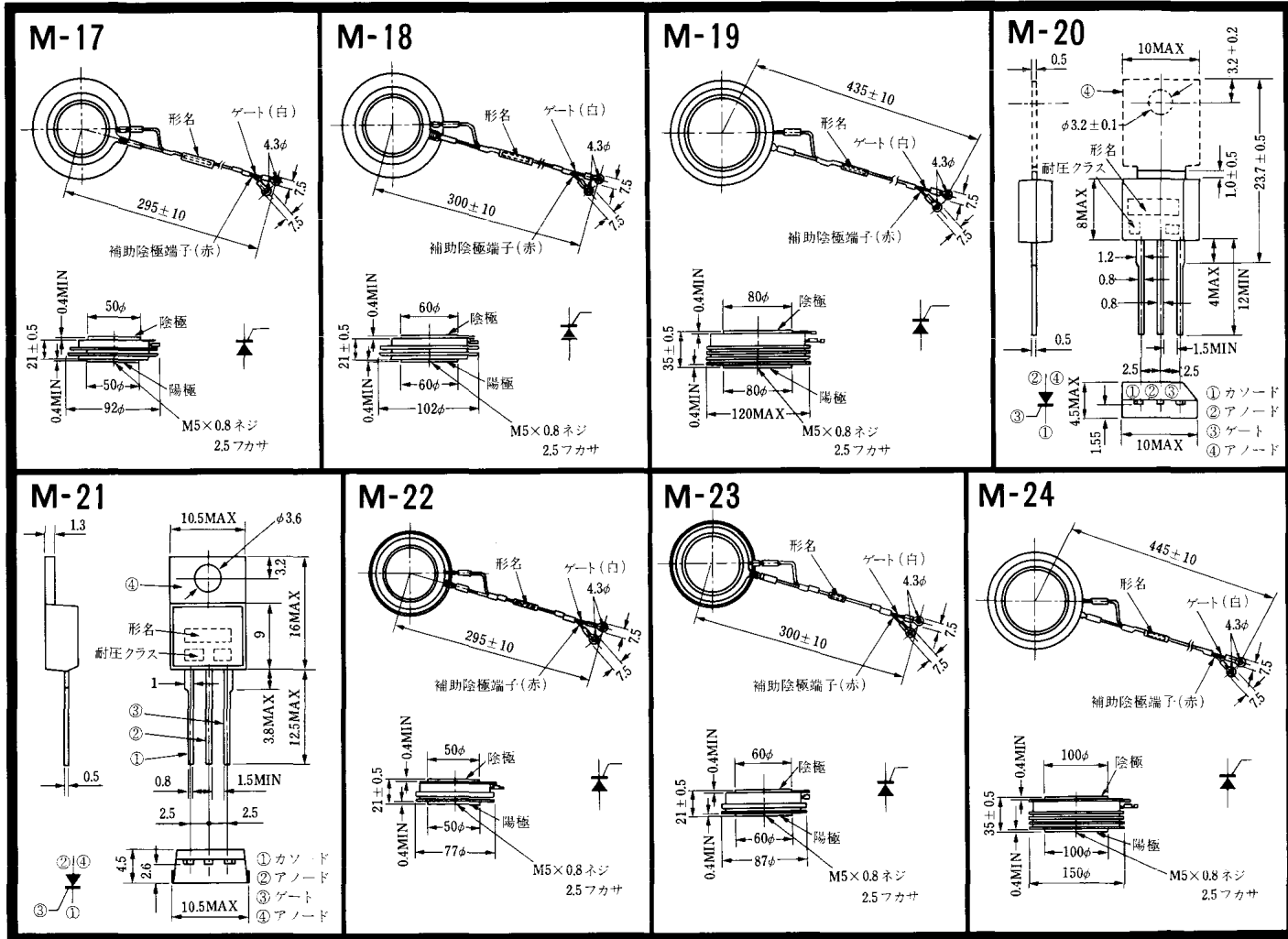
《寸法図単位：mm》

<http://store.iic.cc/>



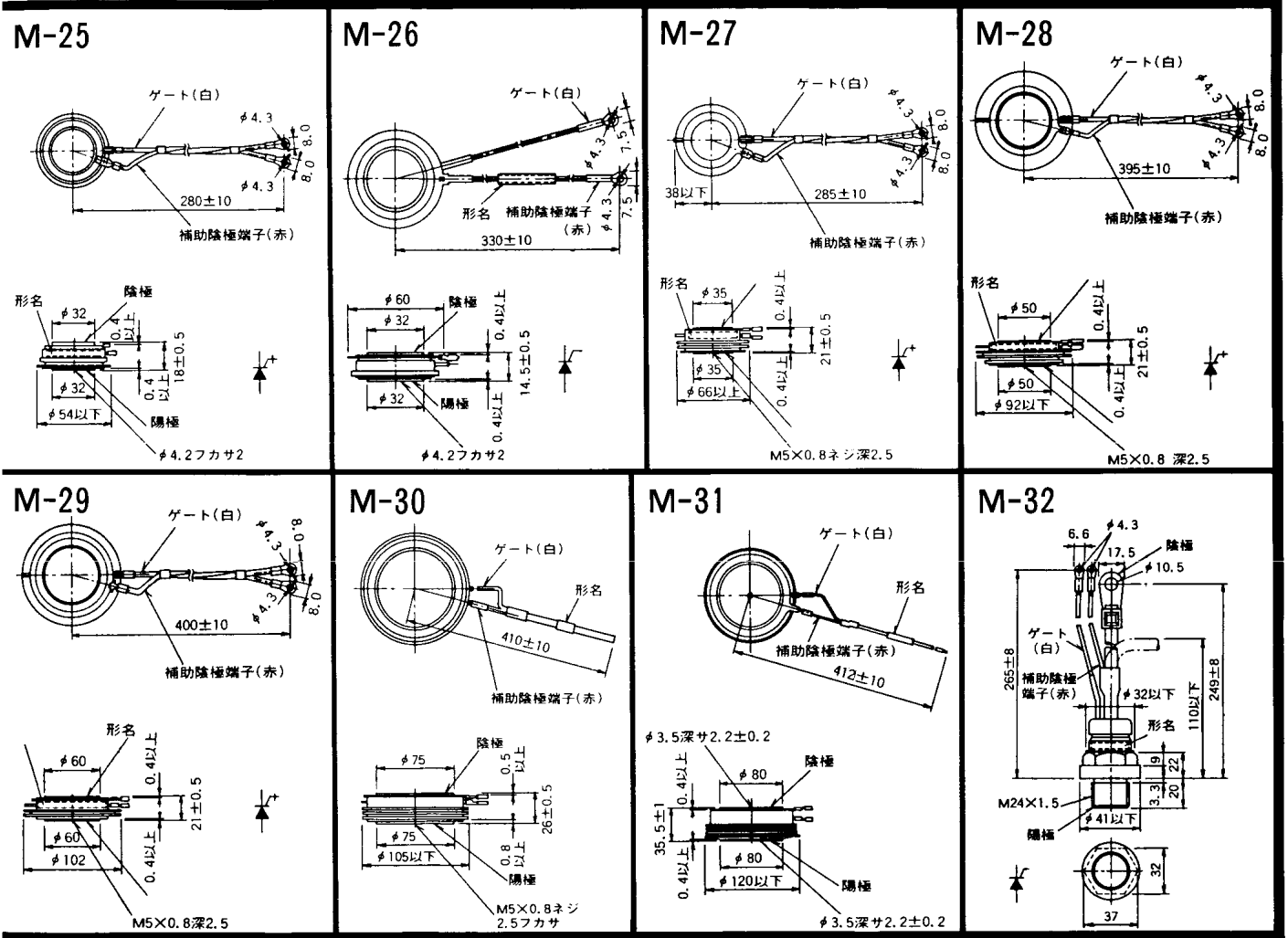
〈寸法図単位：mm〉

<http://store.iicc/>



《寸法図単位：mm》

<http://store.iic.cc/>



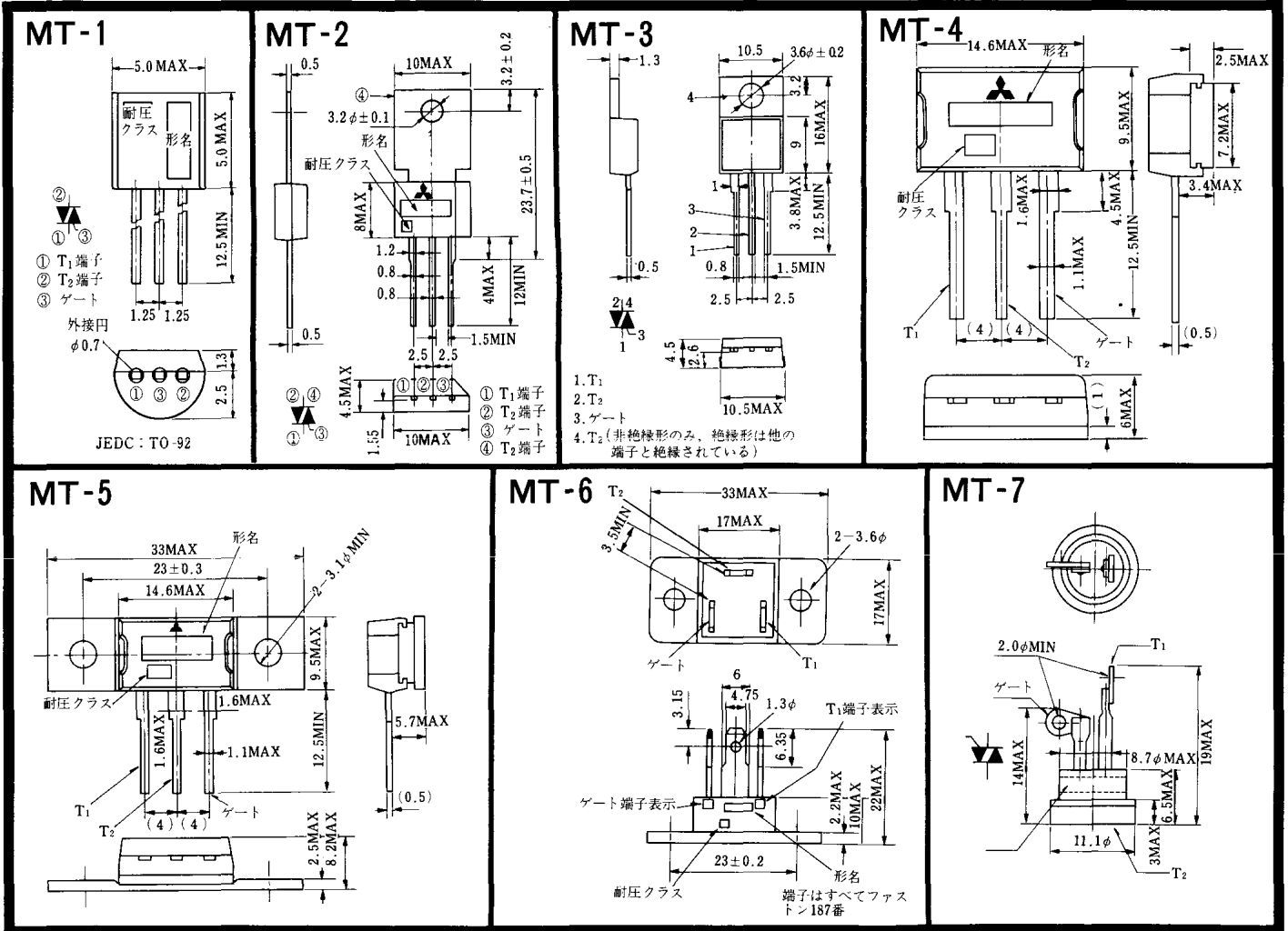
《寸法図単位：mm》

<http://store.iicc.cc/>

<p>M-33</p>	<p>M-34</p>		

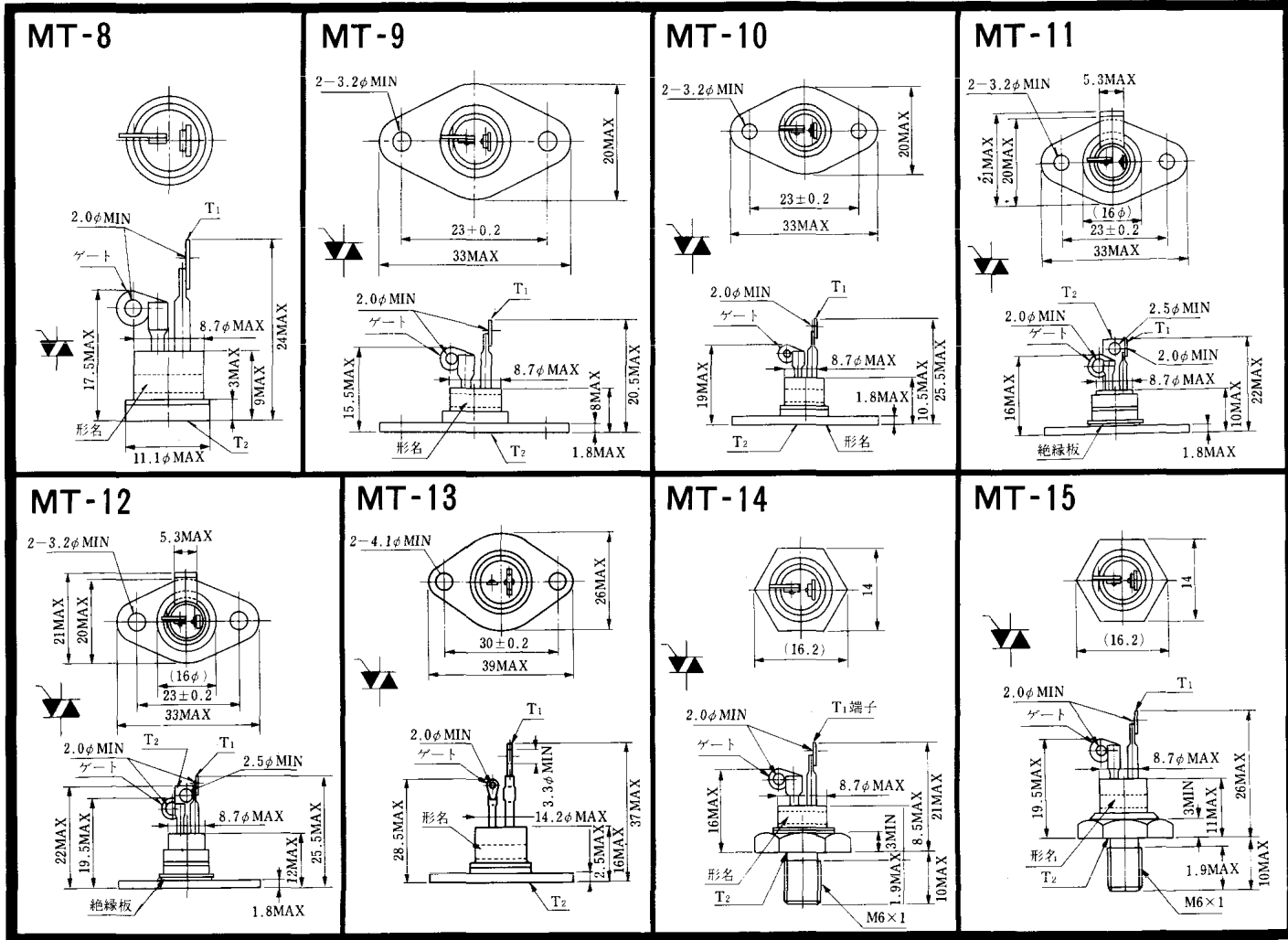
〈寸法図単位:mm〉

<http://store.iic.cc/>



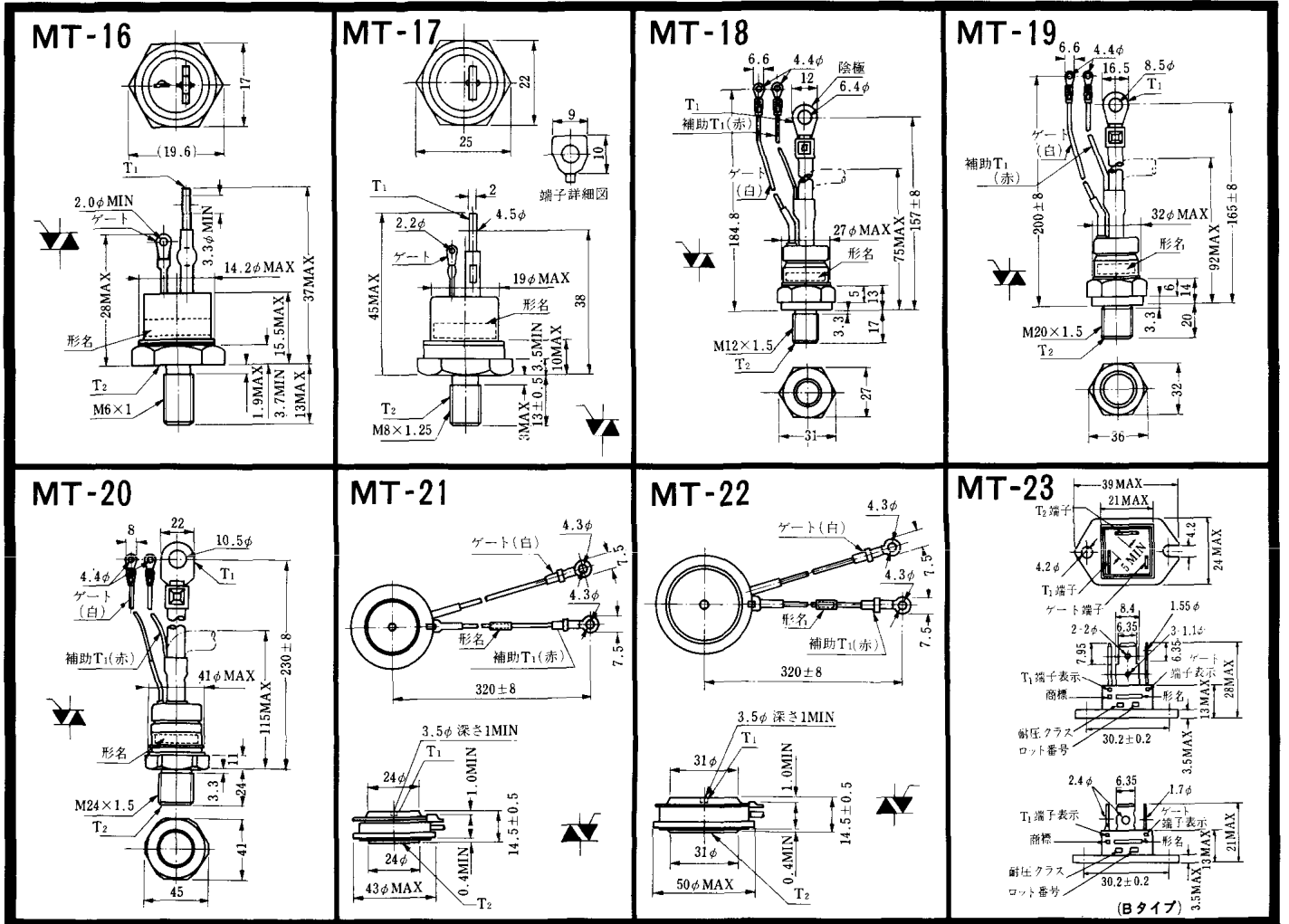
《寸法図単位：mm》

<http://store.iic.cc/>



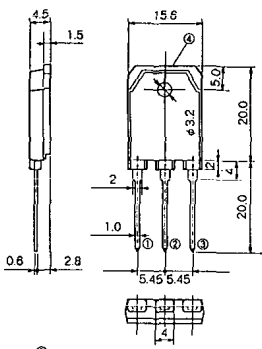
《寸法図単位：mm》

<http://store.iic.cc/>



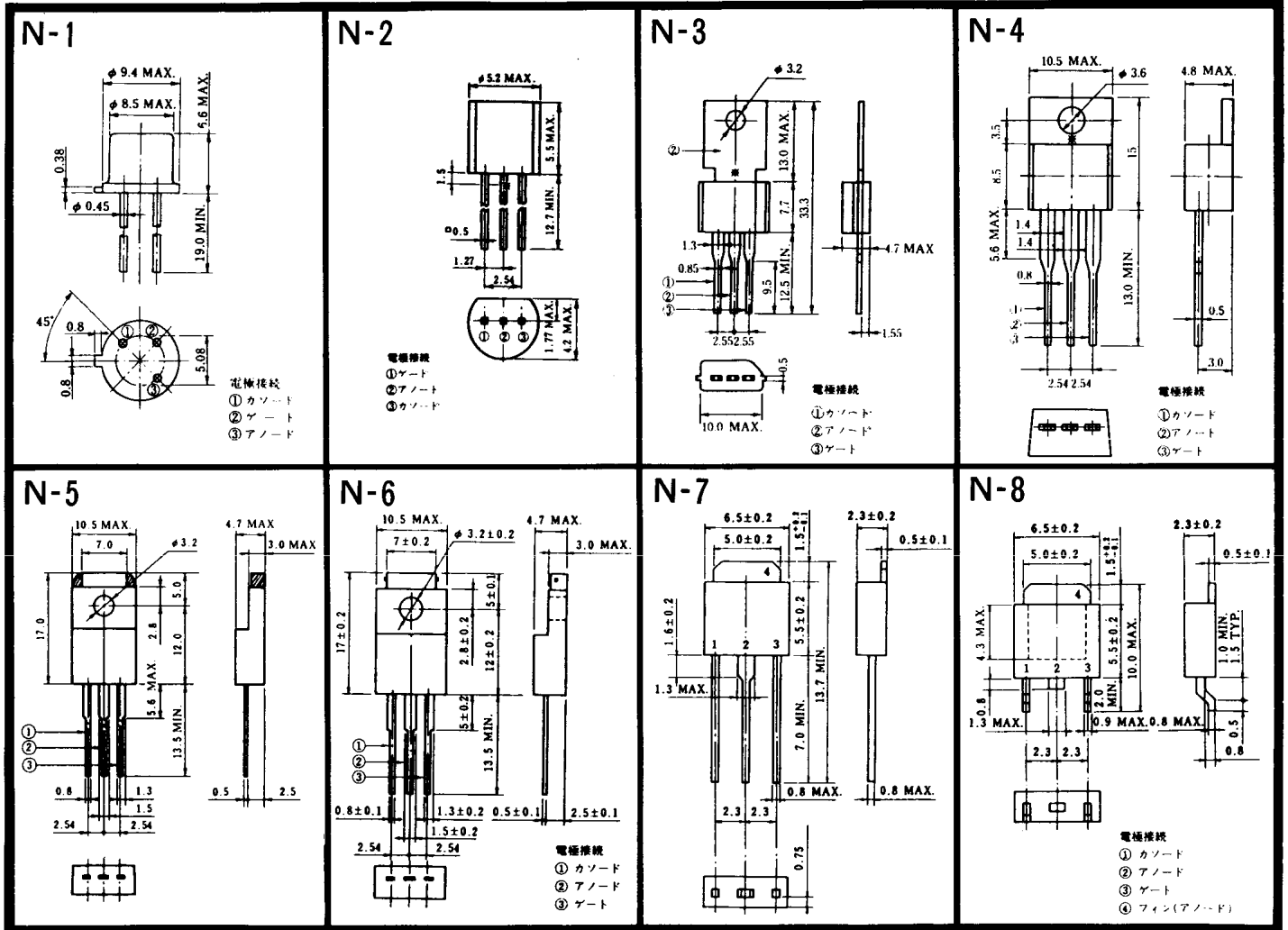
〈寸法図単位：mm〉

<http://store.iic.cc/>

<p>MT-24</p>  <p>① T1 端子 ② T2 端子 ③ ゲート端子 ④ T2 端子</p> <p>TO - 3P</p>			

〈寸法図単位:mm〉

<http://store.iic.cc/>



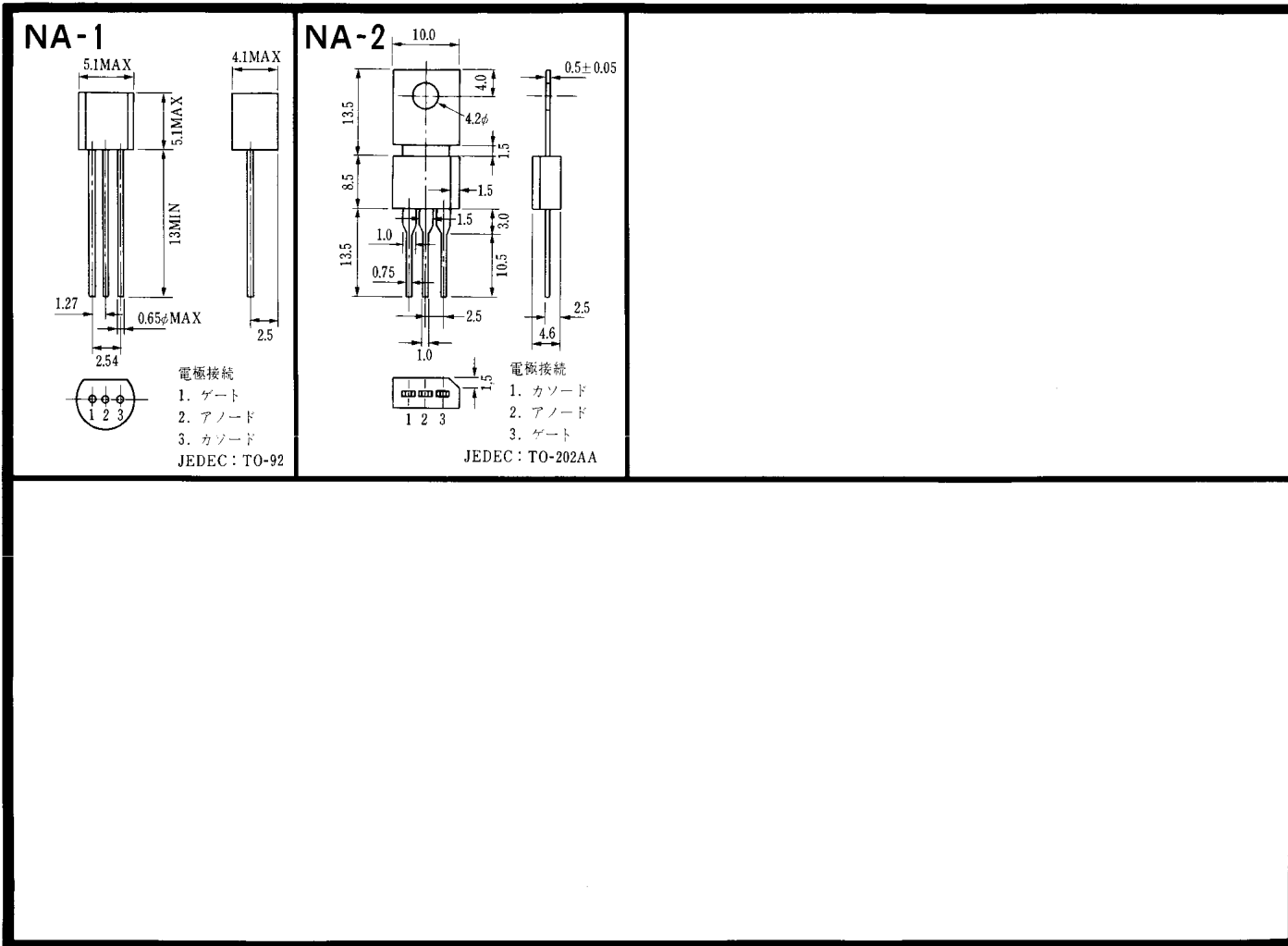
〈寸法図単位: mm〉

<http://store.iicc.cc/>

<p>N-9</p> <p>電極標識 K:カソード A:アノード G:ゲート</p>			

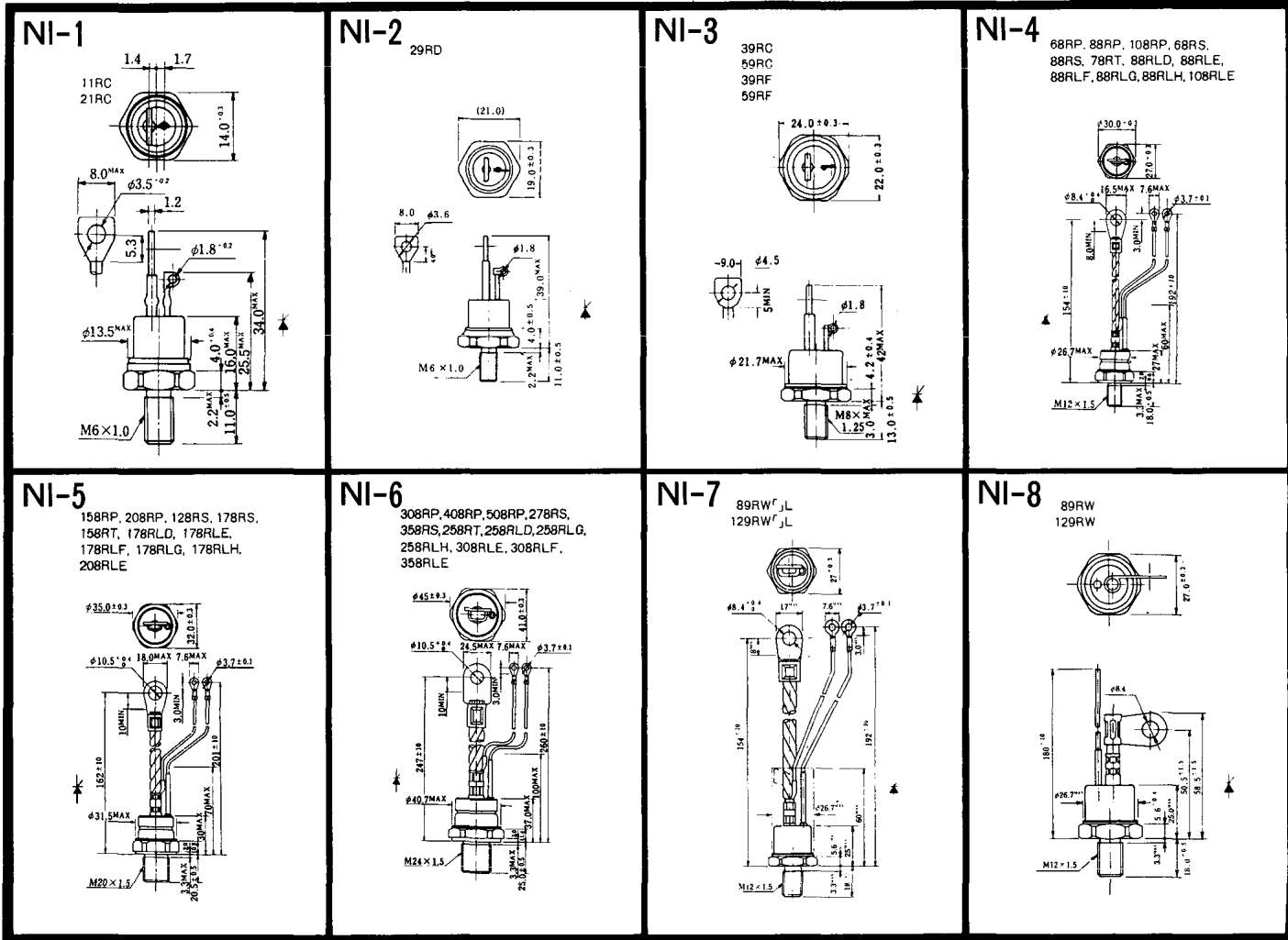
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<http://store.iiic.cc/>



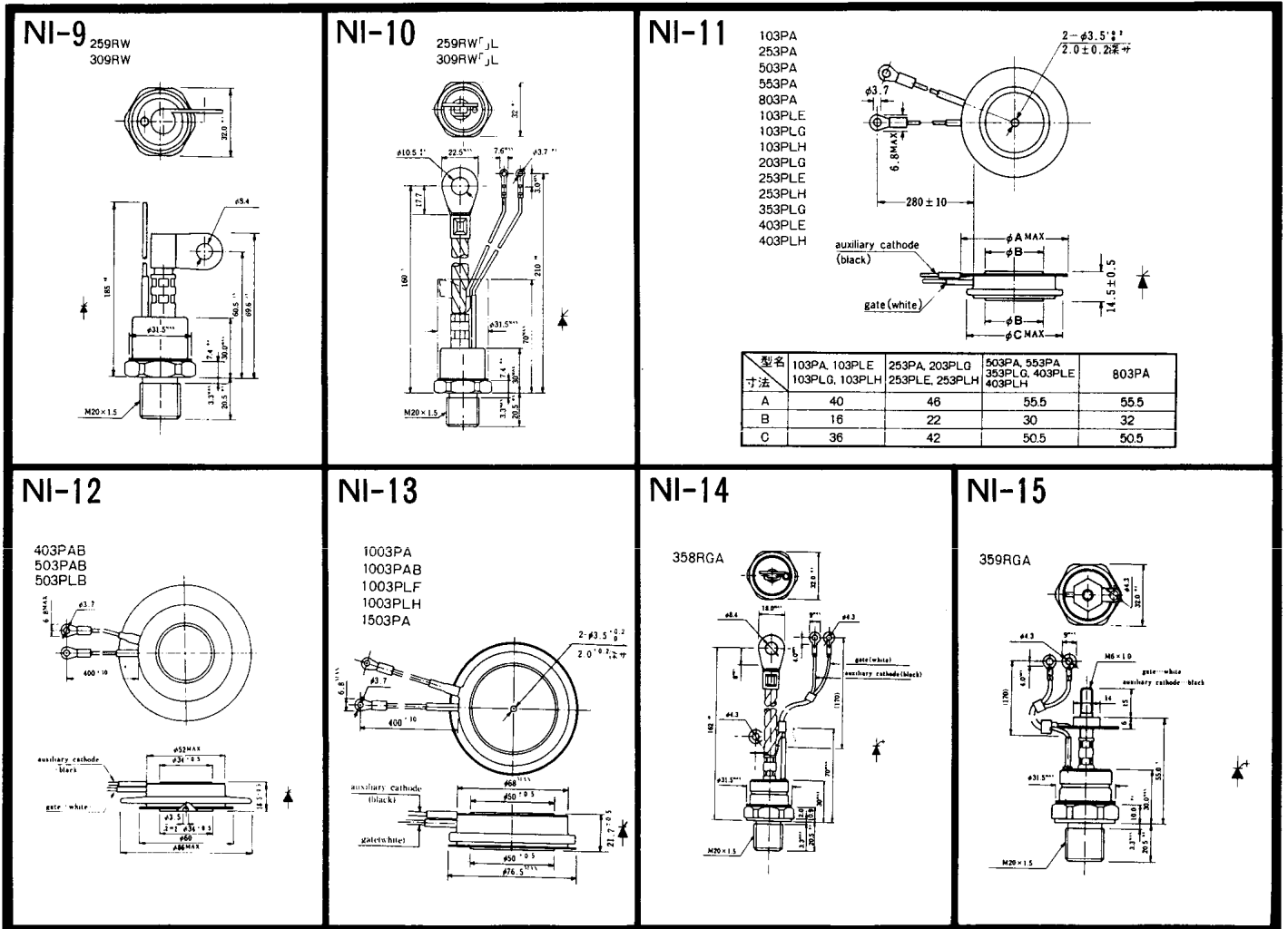
《寸法図単位：mm》

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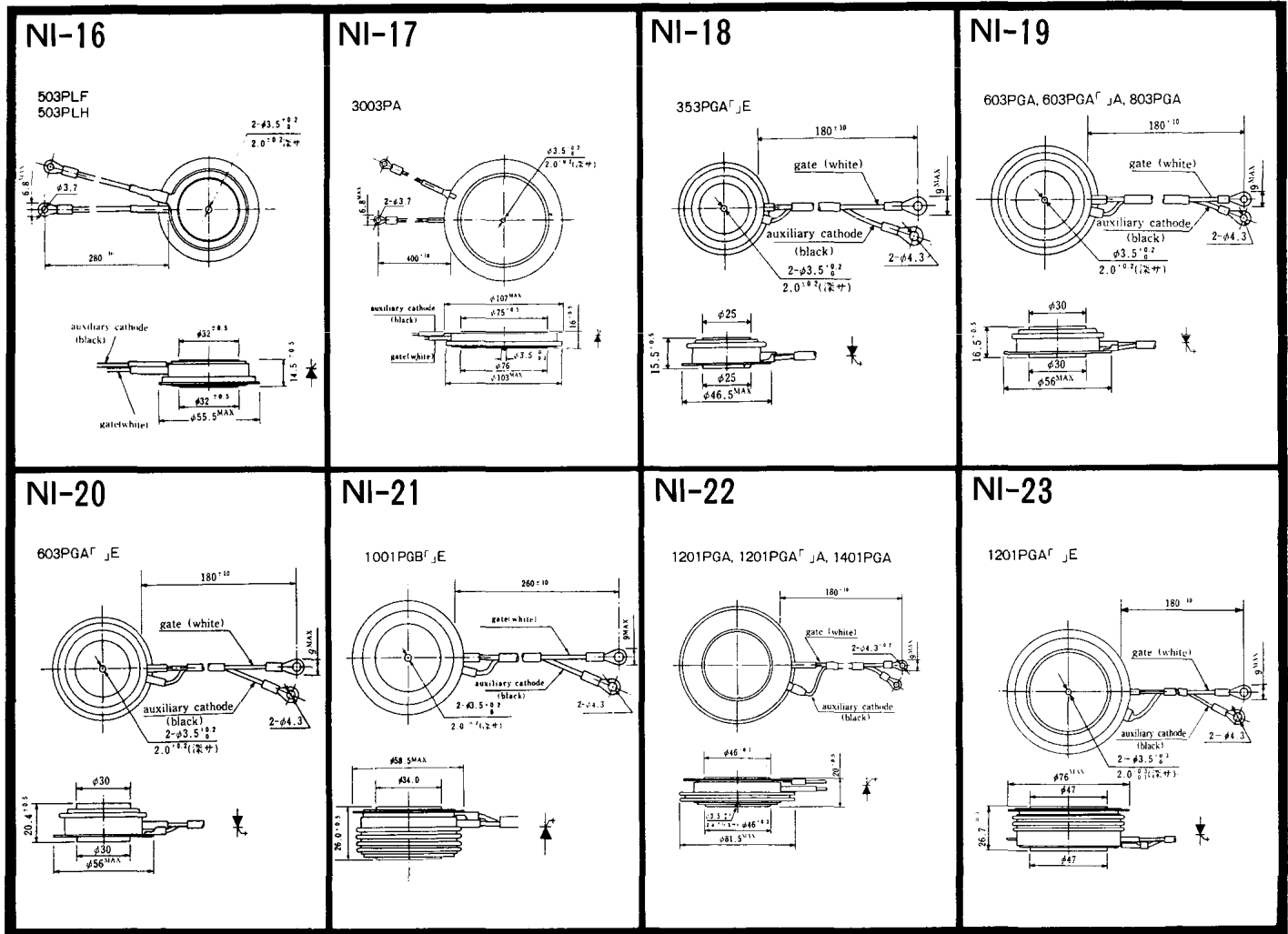
《寸法図単位:mm》

<http://store.iic.cc/>



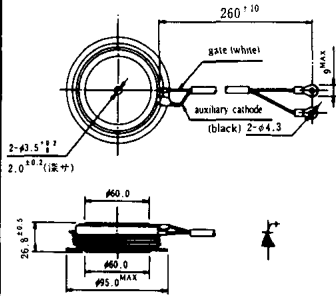
《寸法図単位:mm》

<http://store.iicc.cc/>



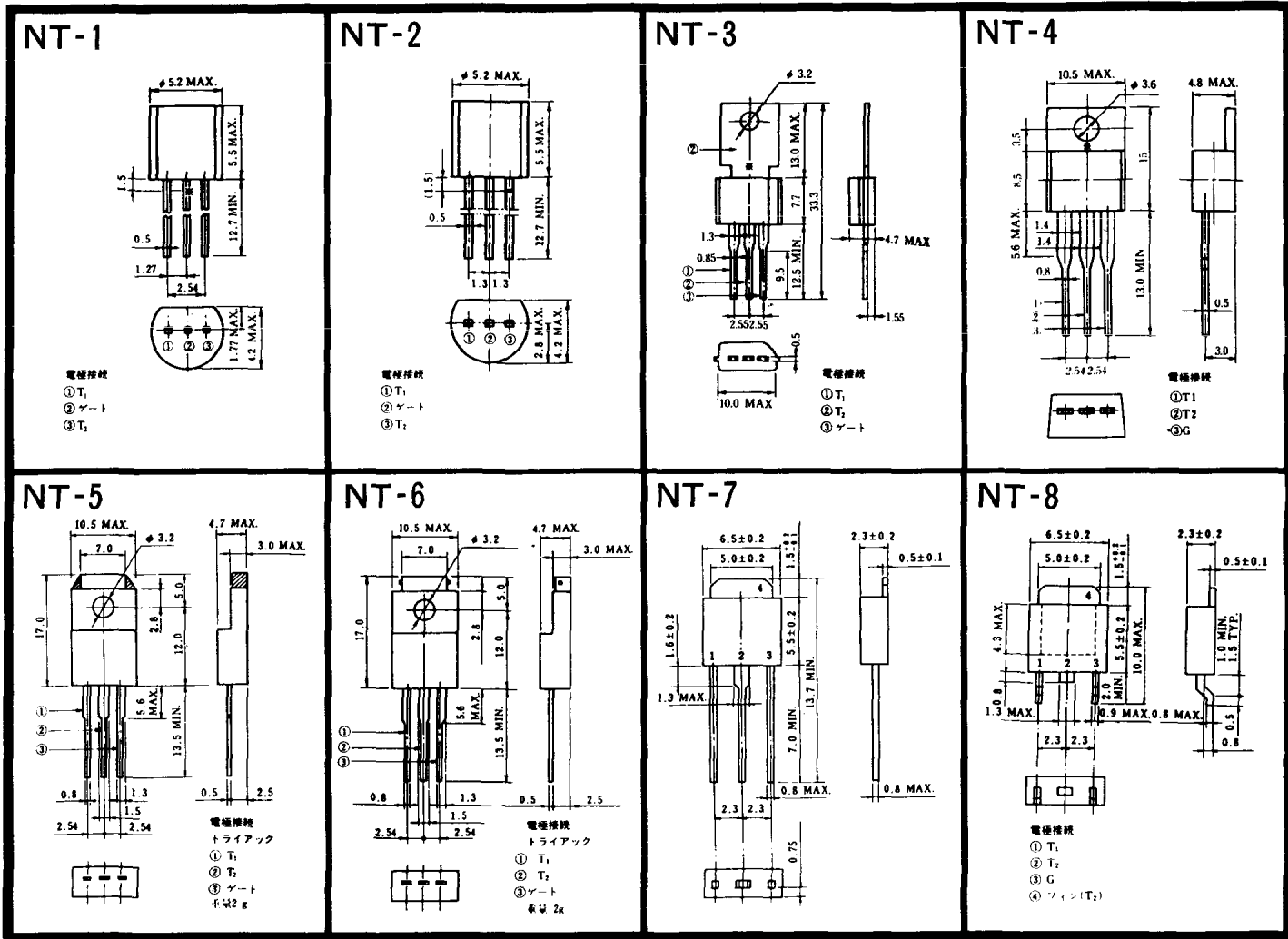
《寸法图单位:mm》

<http://store.iic.cc/>

NI-24	NI-25	NI-26	
<p>2001PGBF JE</p>  <p>Technical drawing of a vacuum tube (NI-24) showing top and side views with dimensions and labels. The top view shows a circular base with a diameter of 260^{+10} mm. It features a central gate labeled "gate (white)" and an auxiliary cathode labeled "auxiliary cathode (black) 2-$\phi 4.3$". There are two sets of pins: "2-$\phi 3.5^{+0.1}$" and "2.0$^{+0.2}$ (深中)". The side view shows a cylindrical tube with a diameter of $\phi 60.0$ mm and a length of $26.0^{+0.5}$ mm. The base diameter is $\phi 60.0$ mm and the maximum diameter is $\phi 95.0$ MAX. A small arrow symbol is also present.</p>			

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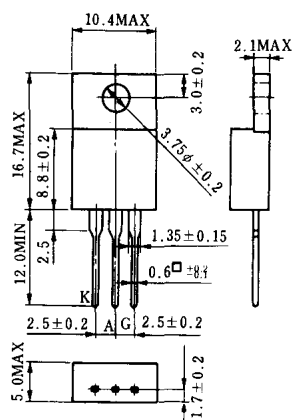
《寸法图单位:mm》



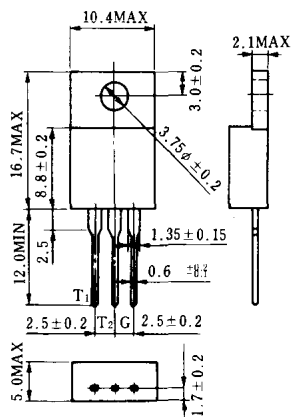
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〈寸法図単位:mm〉

S-1

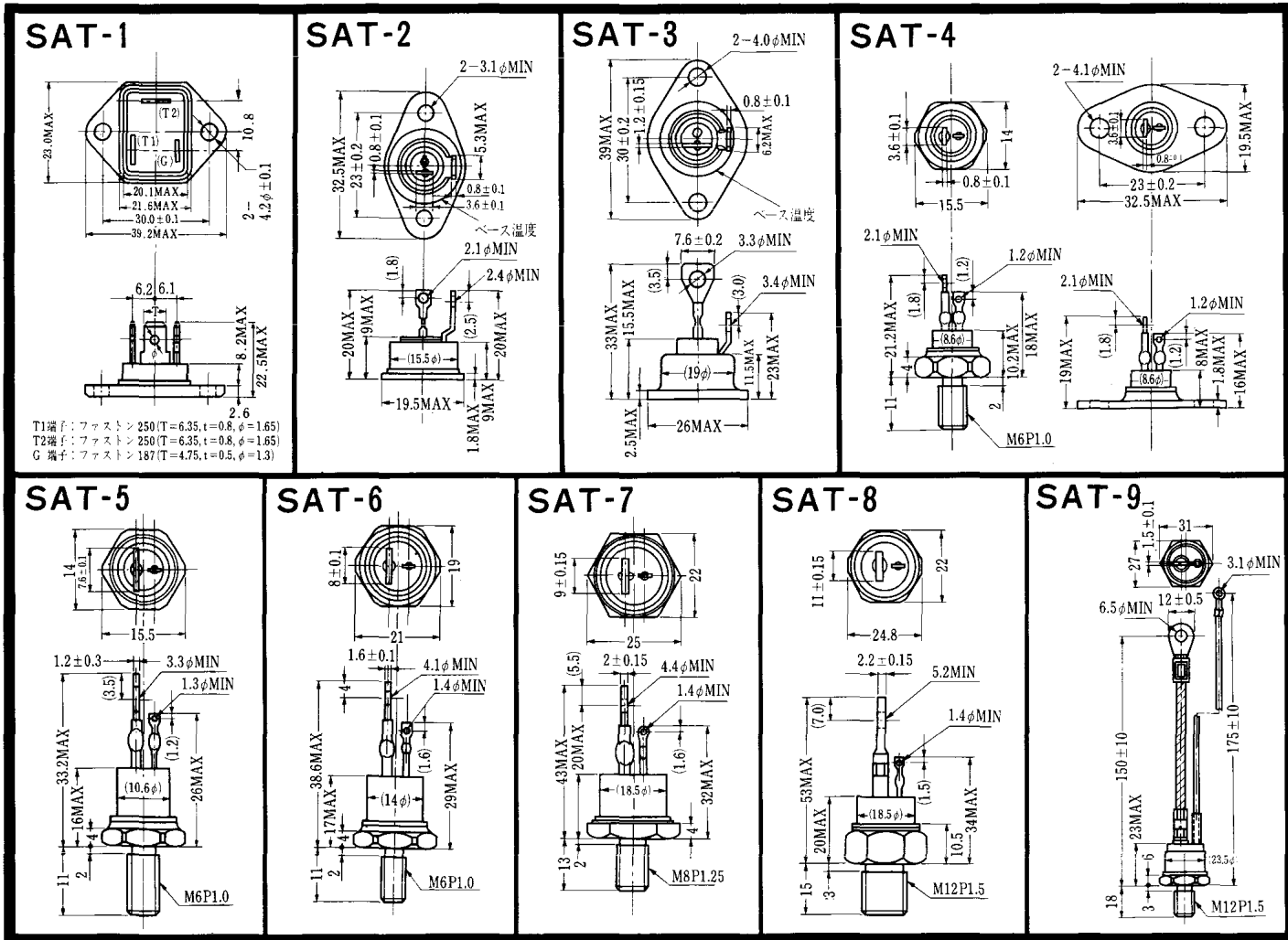


ST-1



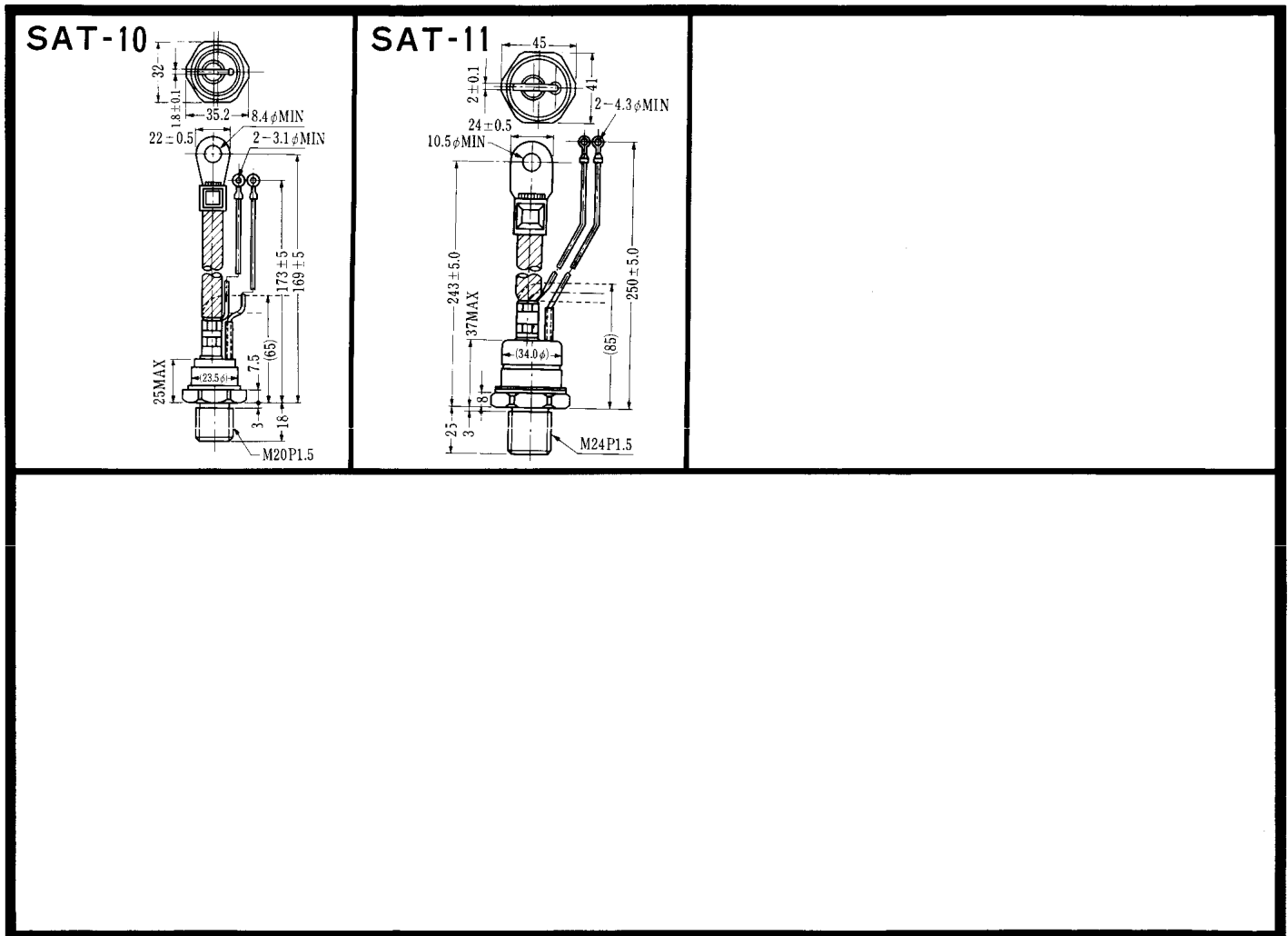
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《寸法図単位：mm》



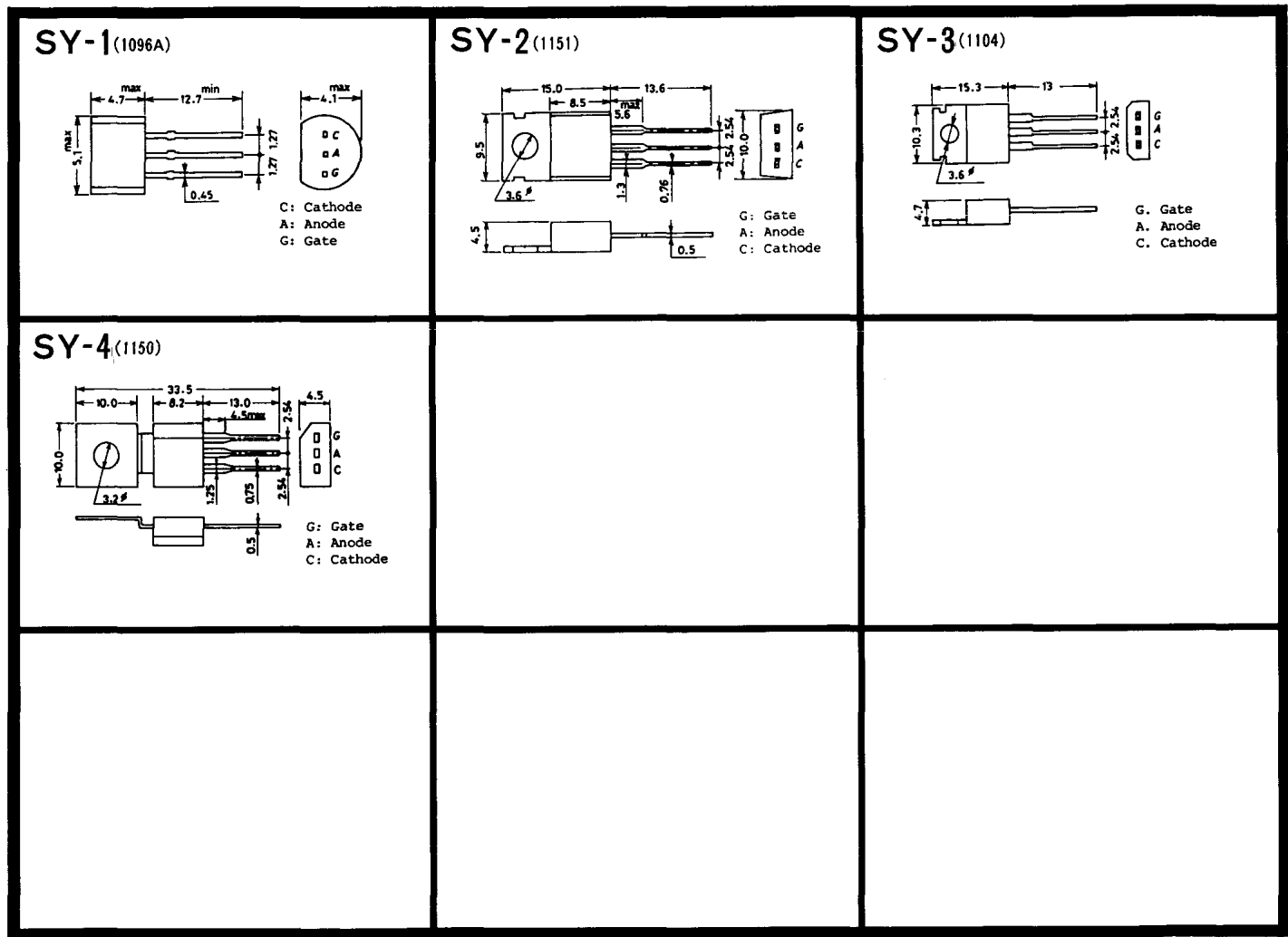
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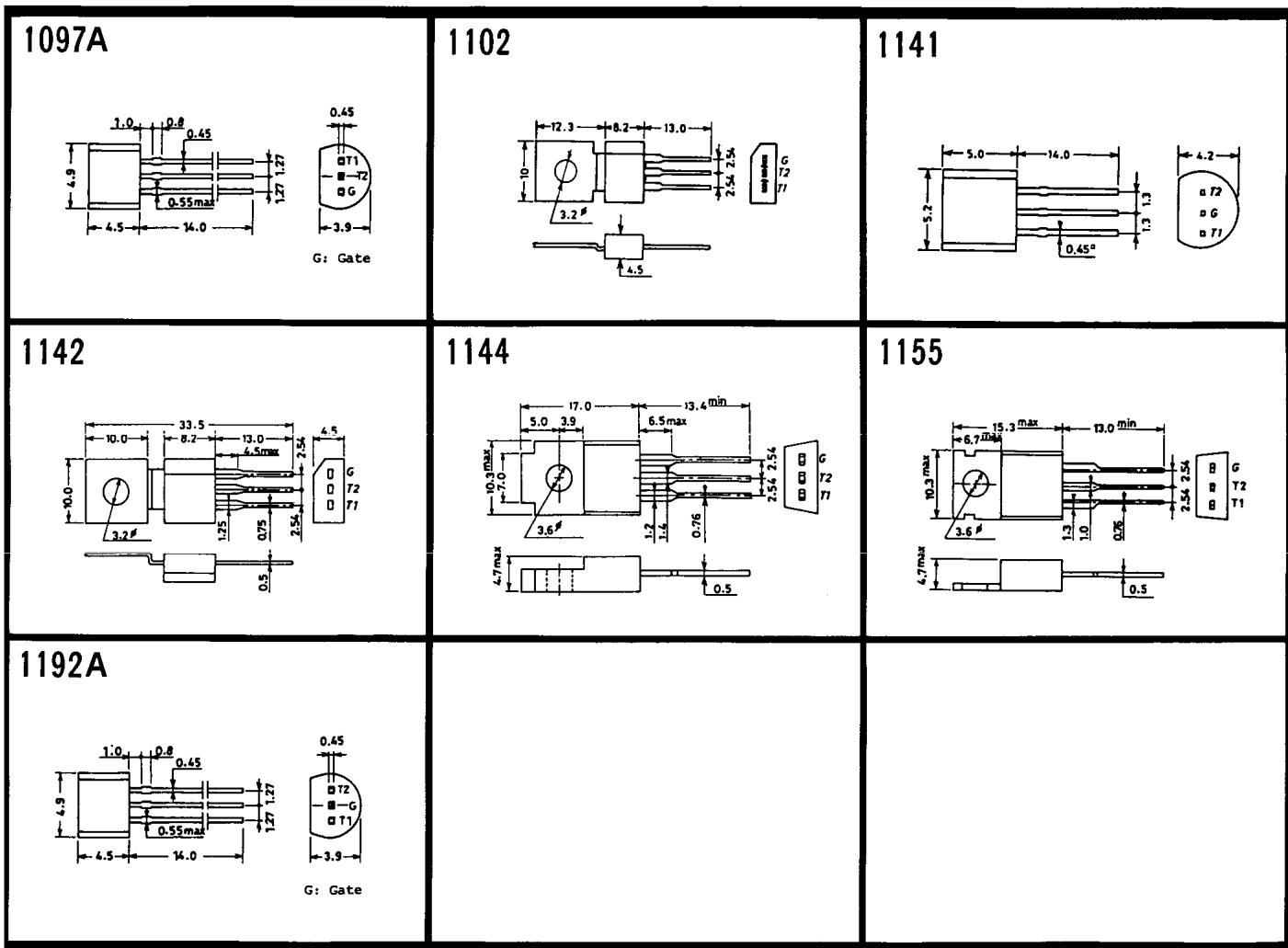
《寸法図単位：mm》

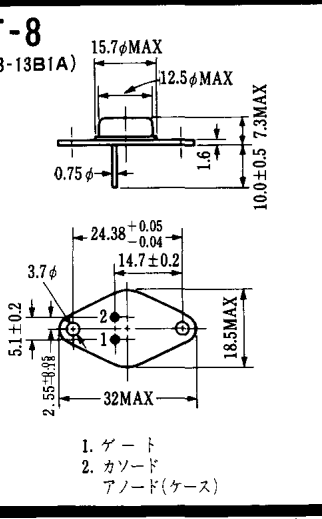
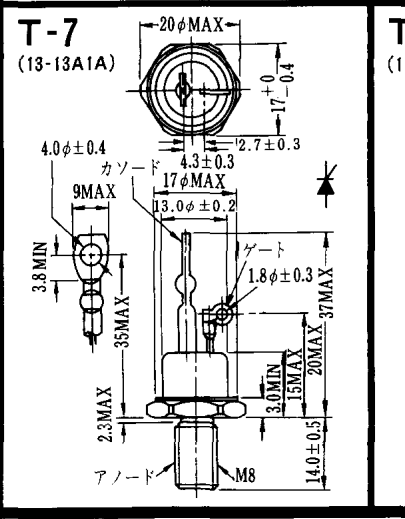
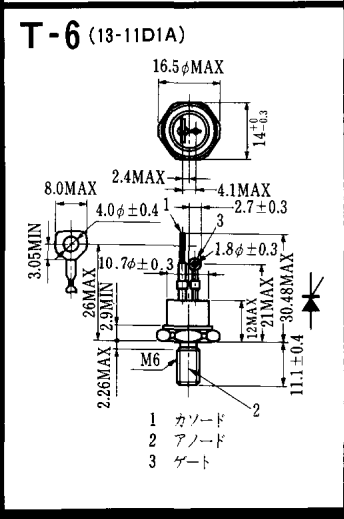
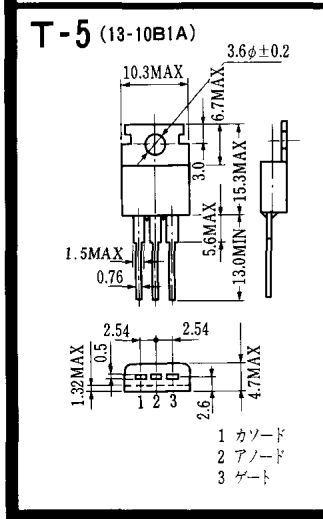
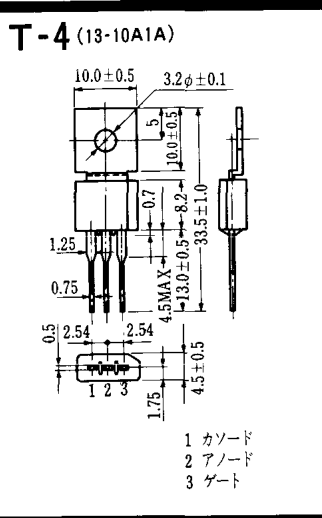
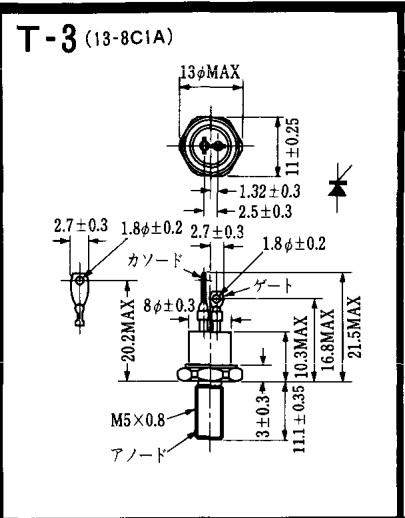
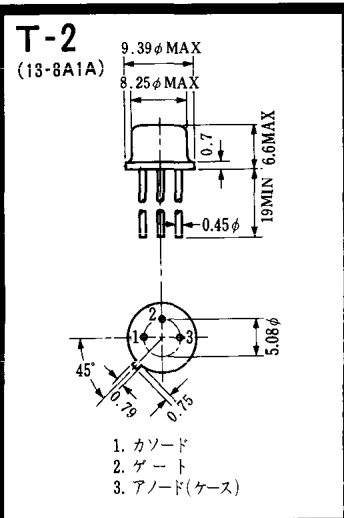
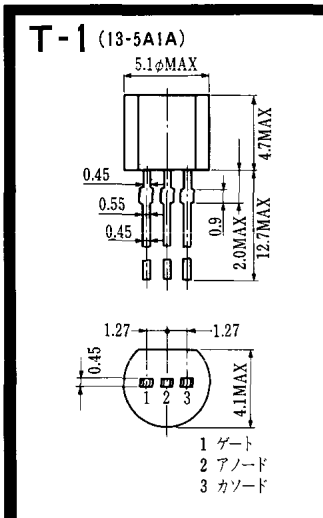


<http://store.iic.cc/>

《寸法図單位：mm》

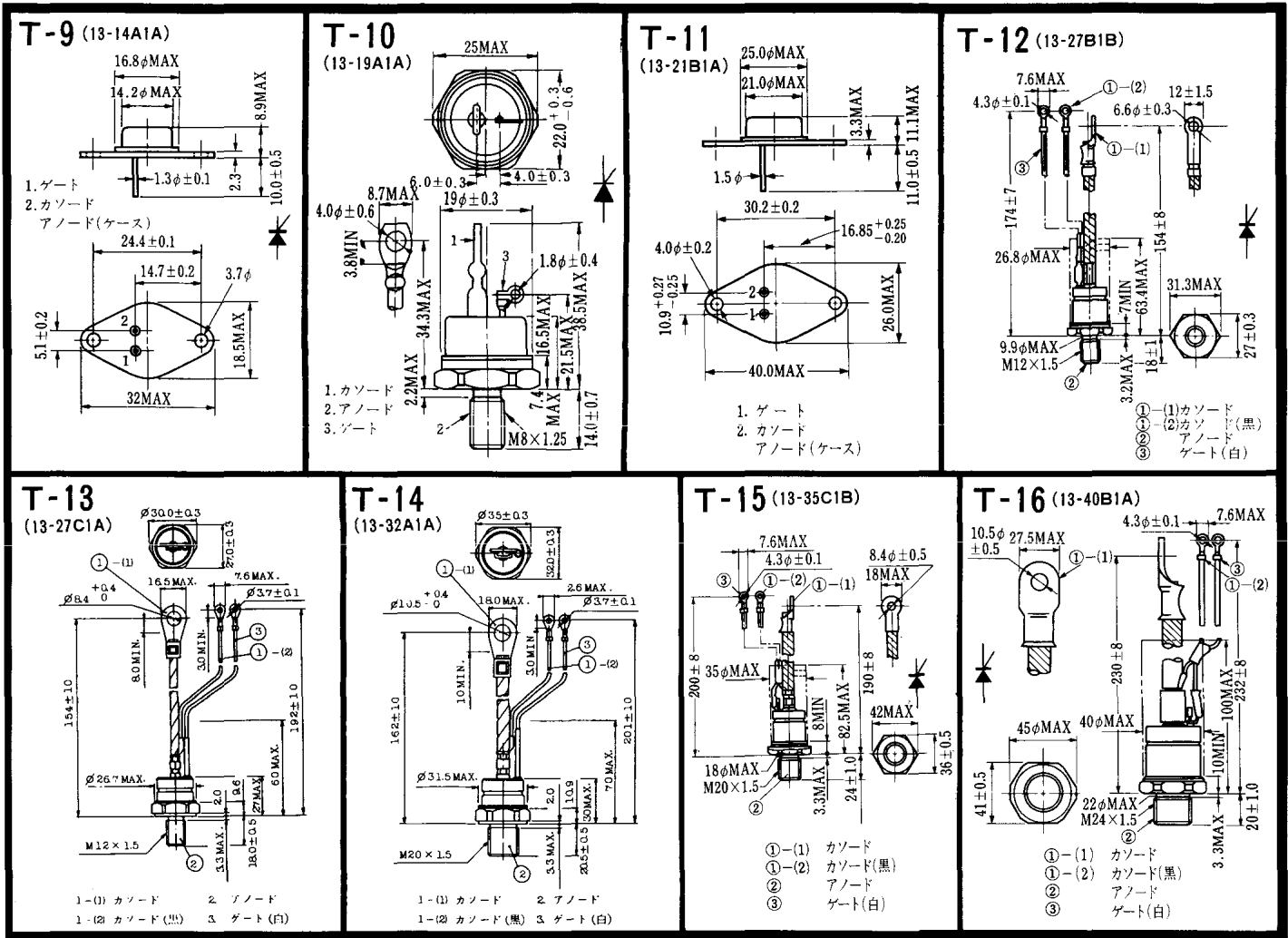






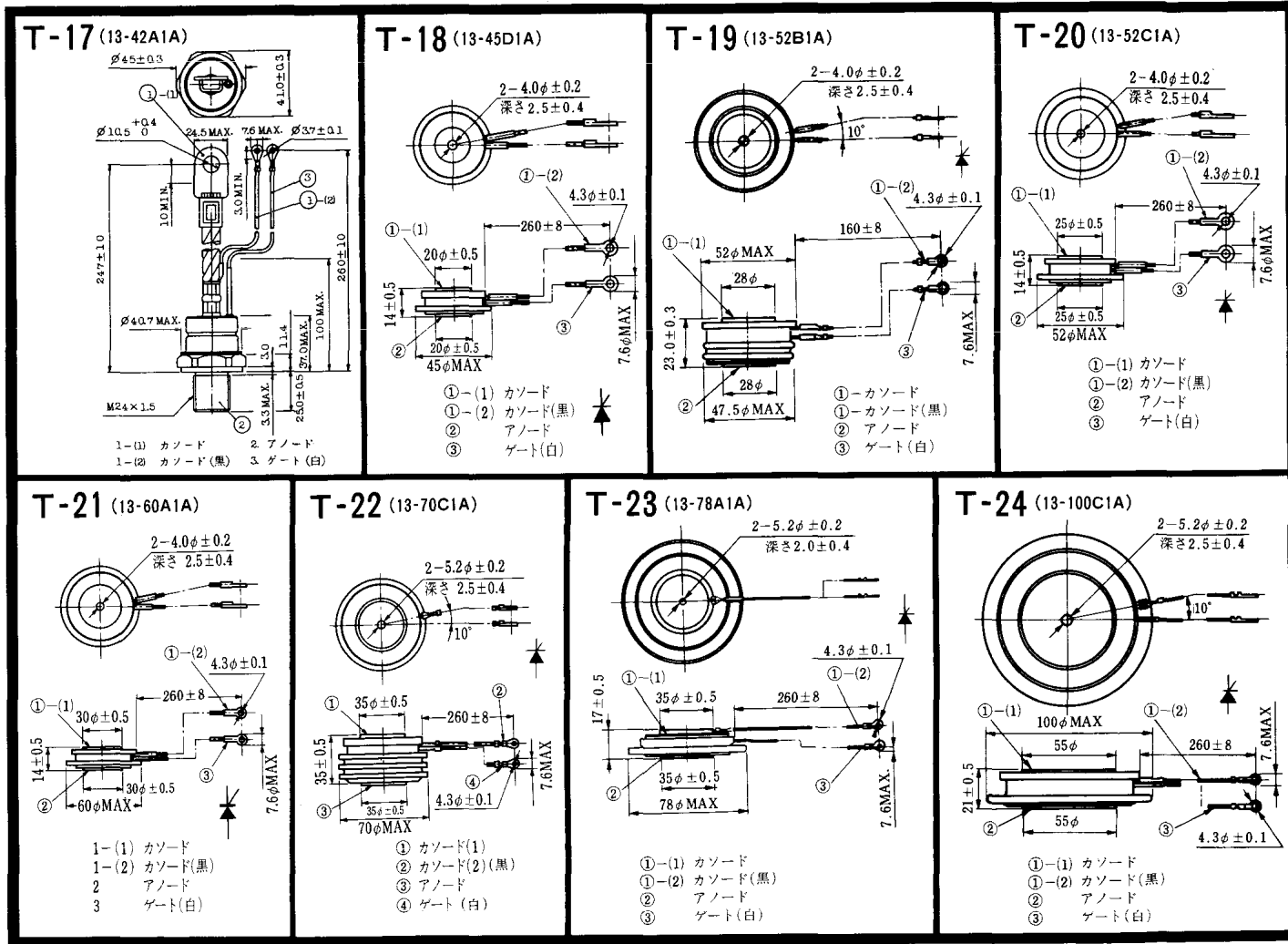
<http://store.iic.cc/>

◀寸法図単位：mm



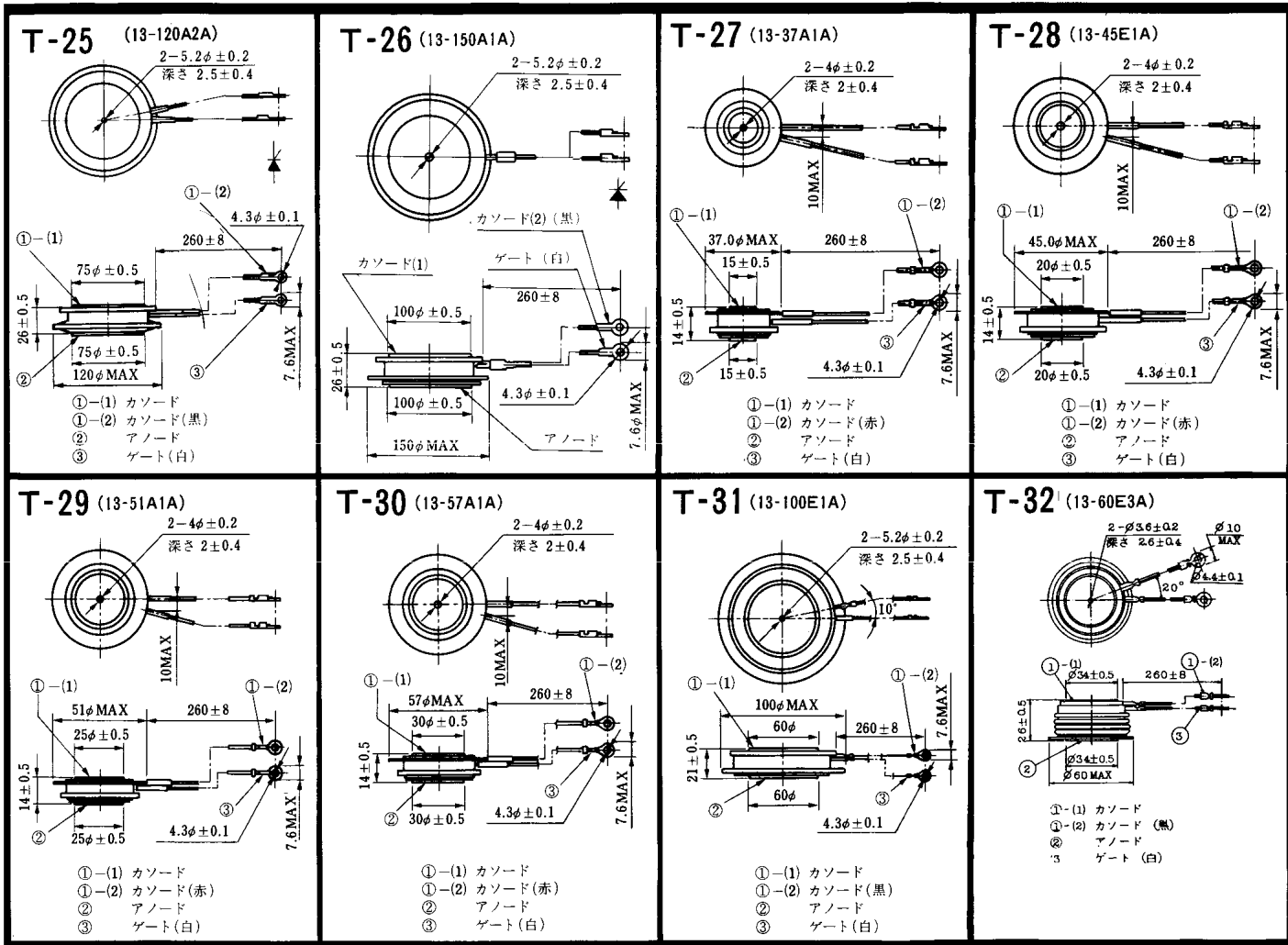
《寸法図単位：mm》

<http://store.iic.cc/>



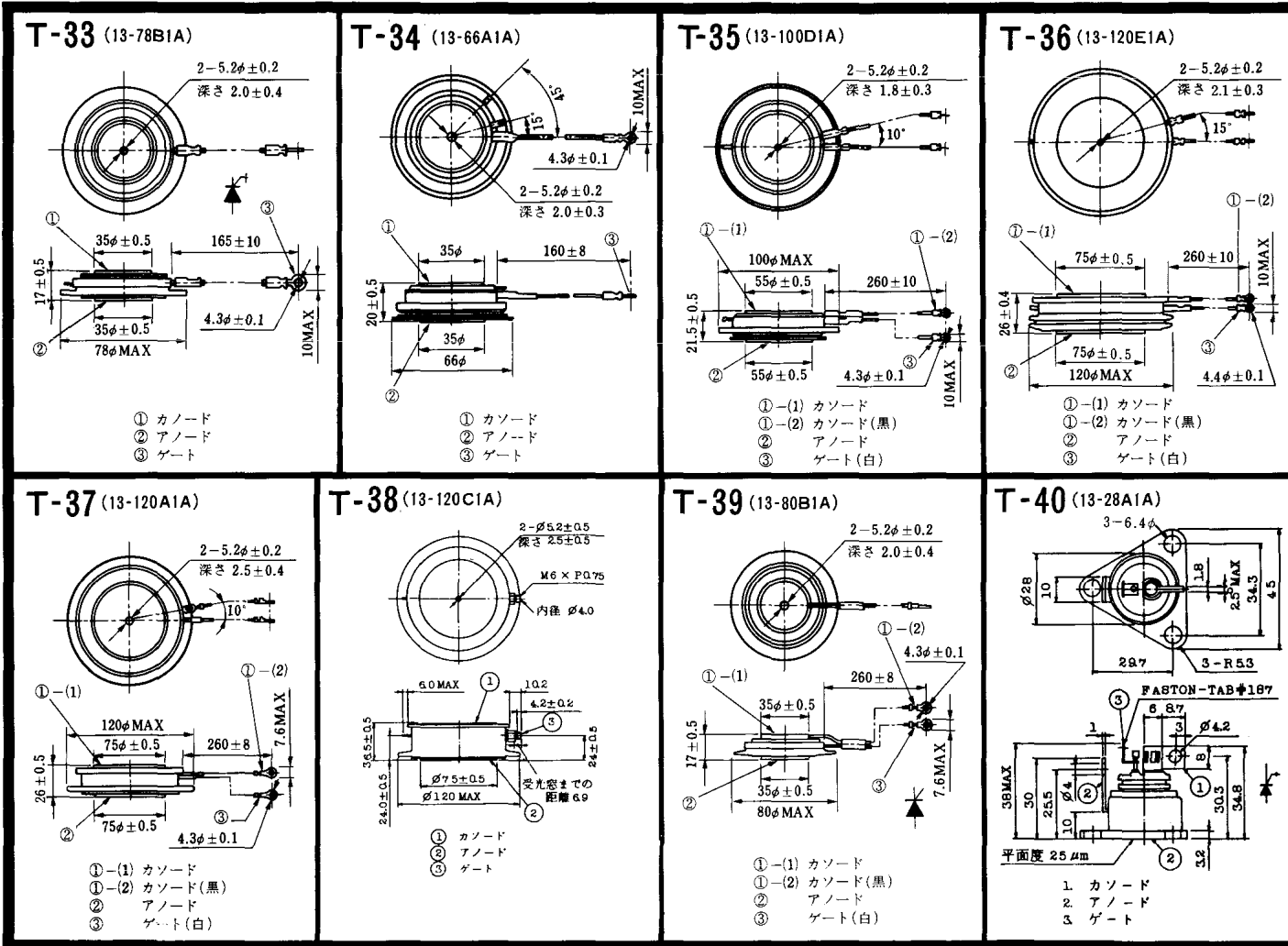
〈寸法図単位：mm〉

<http://store.iicc.cc/>



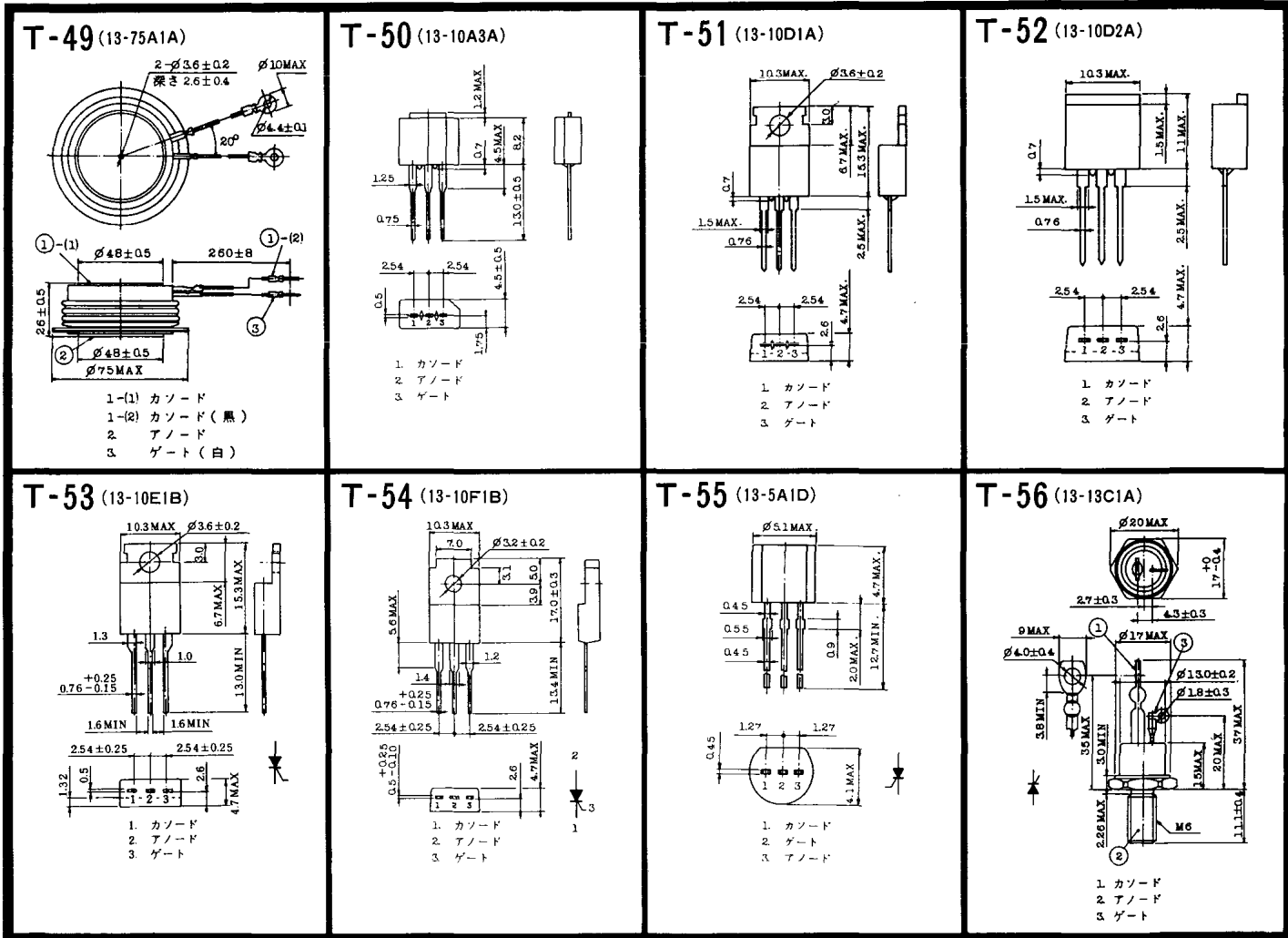
《寸法図単位：mm》

<http://store.iicc.cc/>



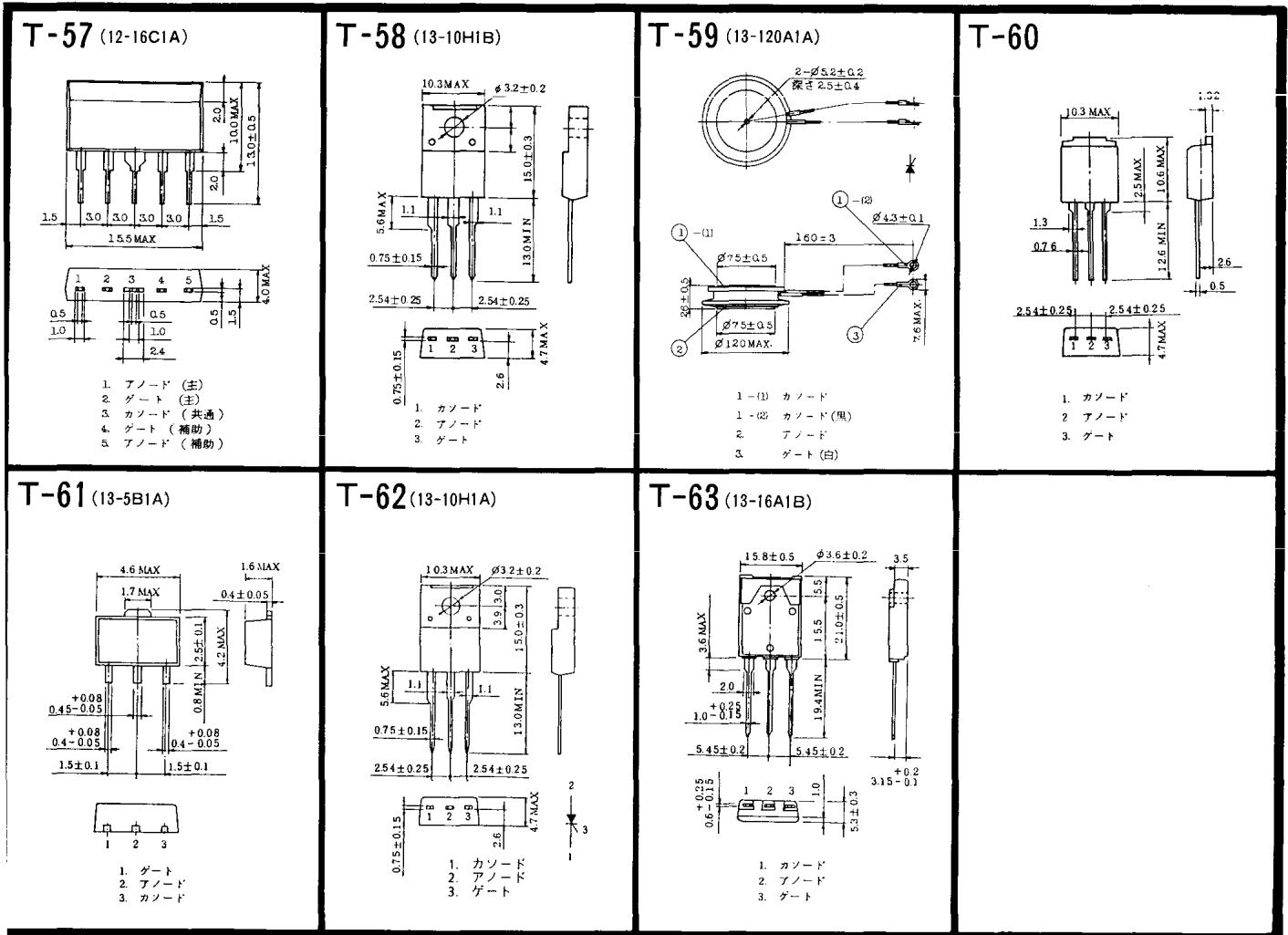
《寸法図単位：mm

<http://store.iicc.cc/>



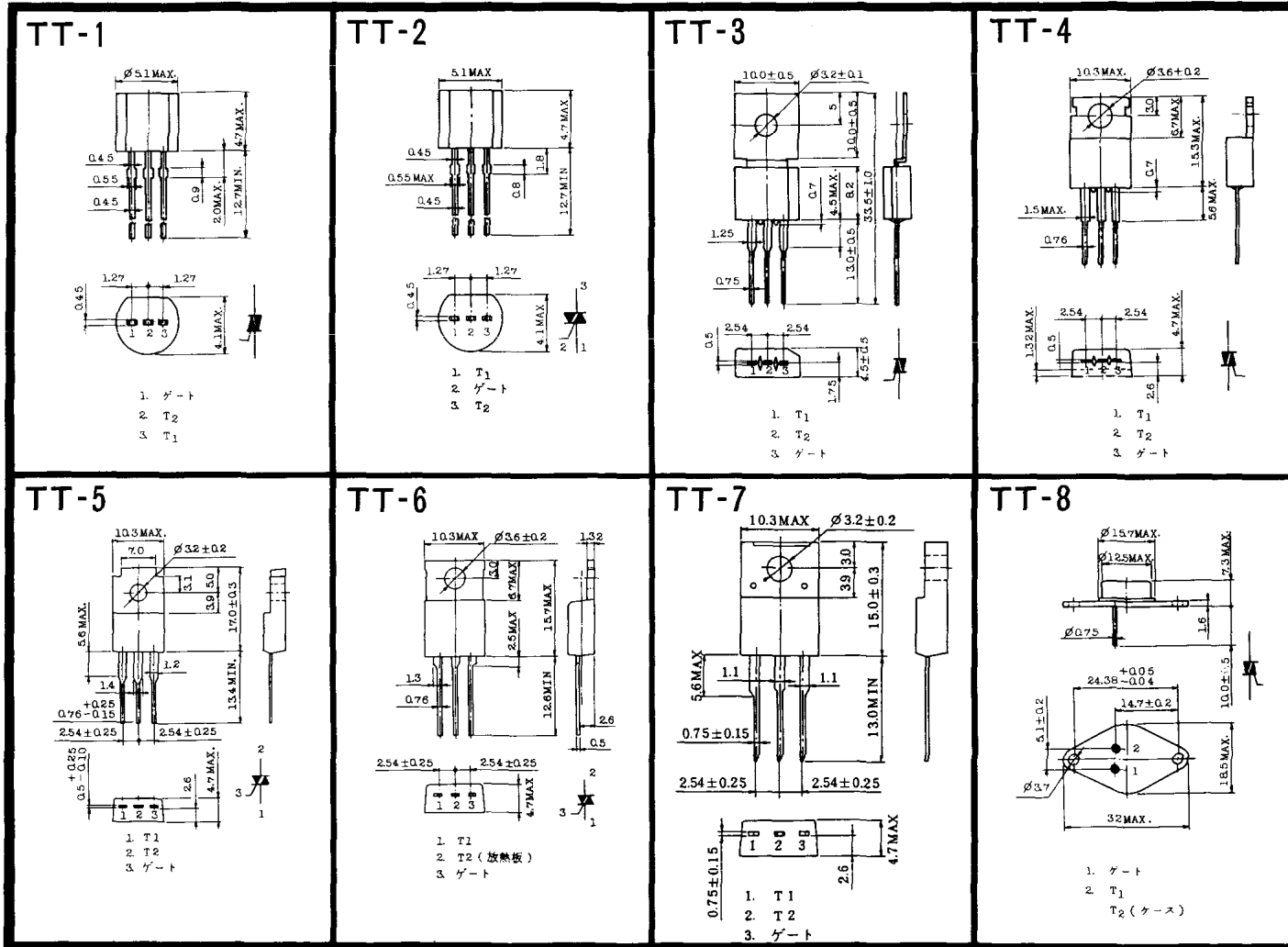
〈寸法図単位:mm〉

<http://store.iic.cc/>



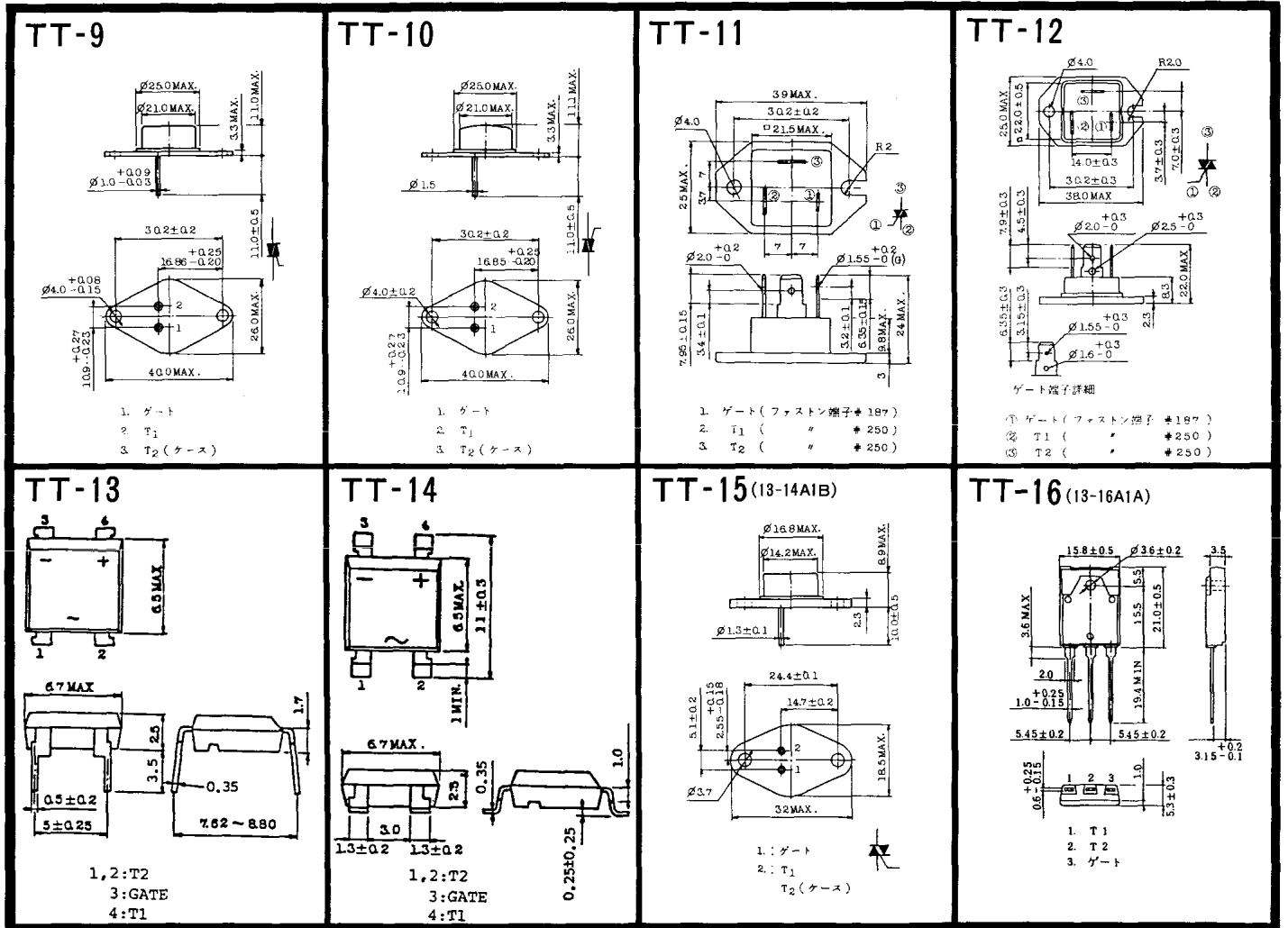
《寸法図単位:mm》

<http://store.iic.cc/>



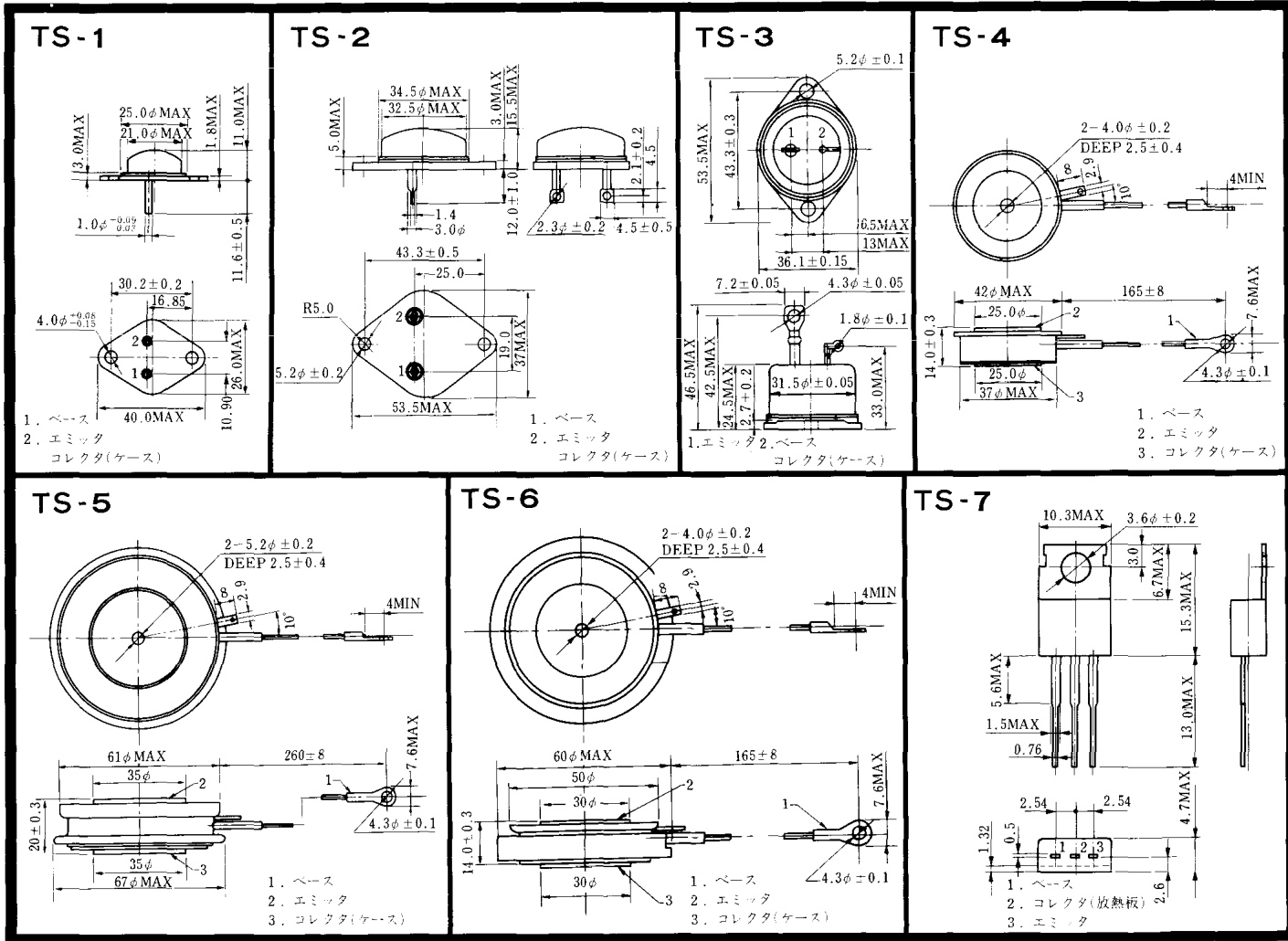
〈寸法図単位: mm〉

<http://store.iic.cc/>



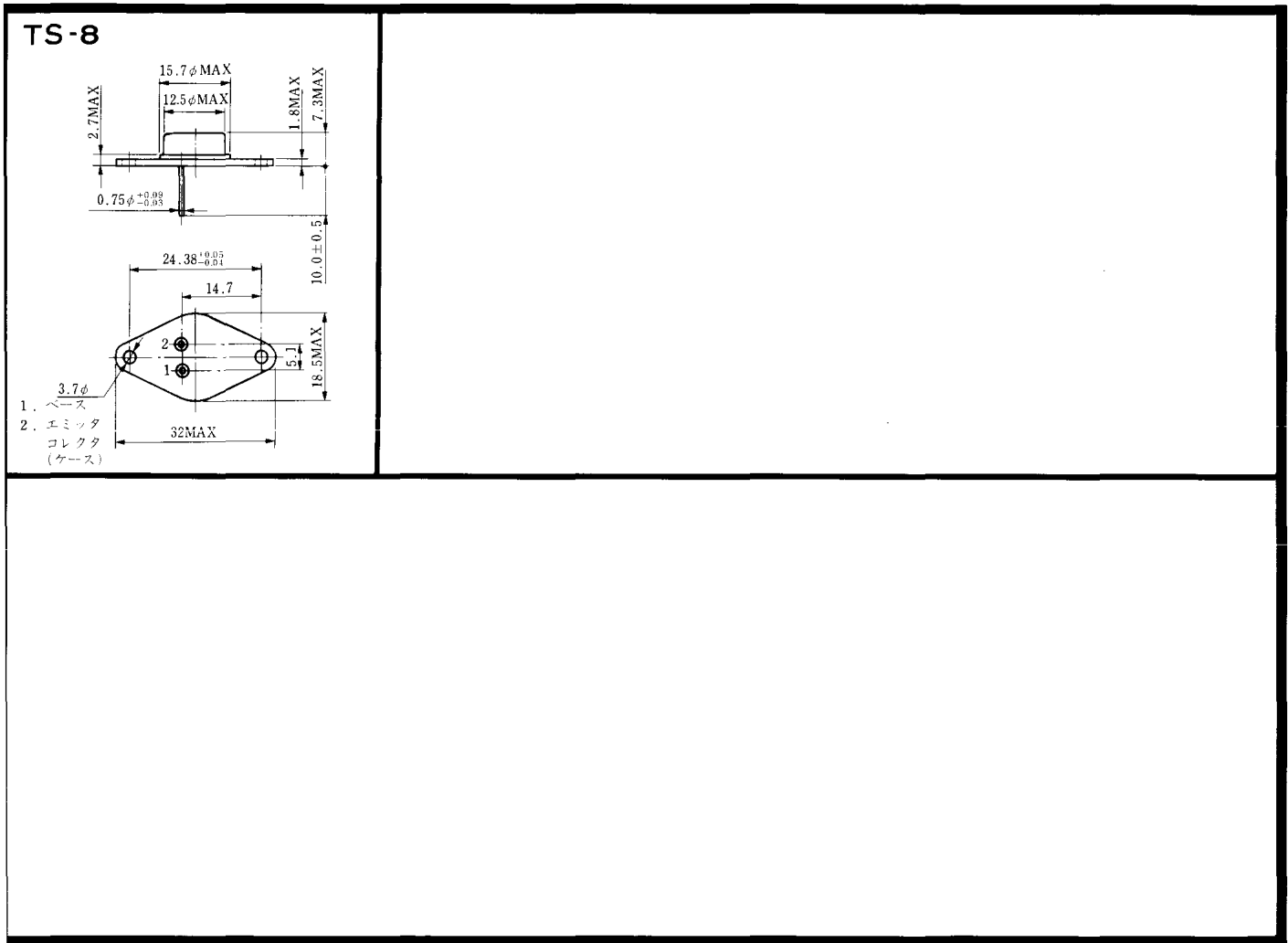
◀寸法図単位: mm▶

<http://store.iicc.cc/>



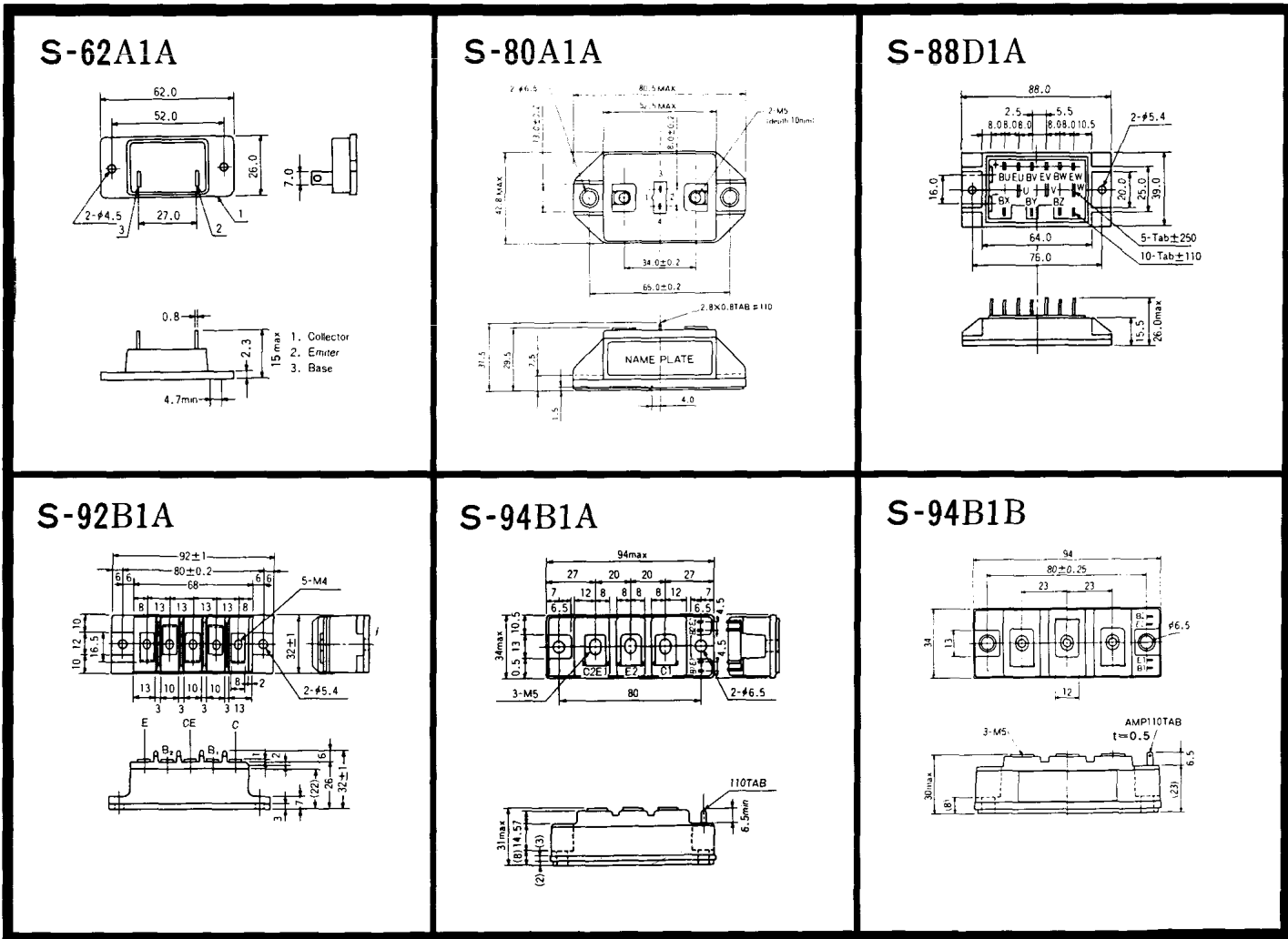
《寸法図単位：mm》

<http://store.iicc.cc/>



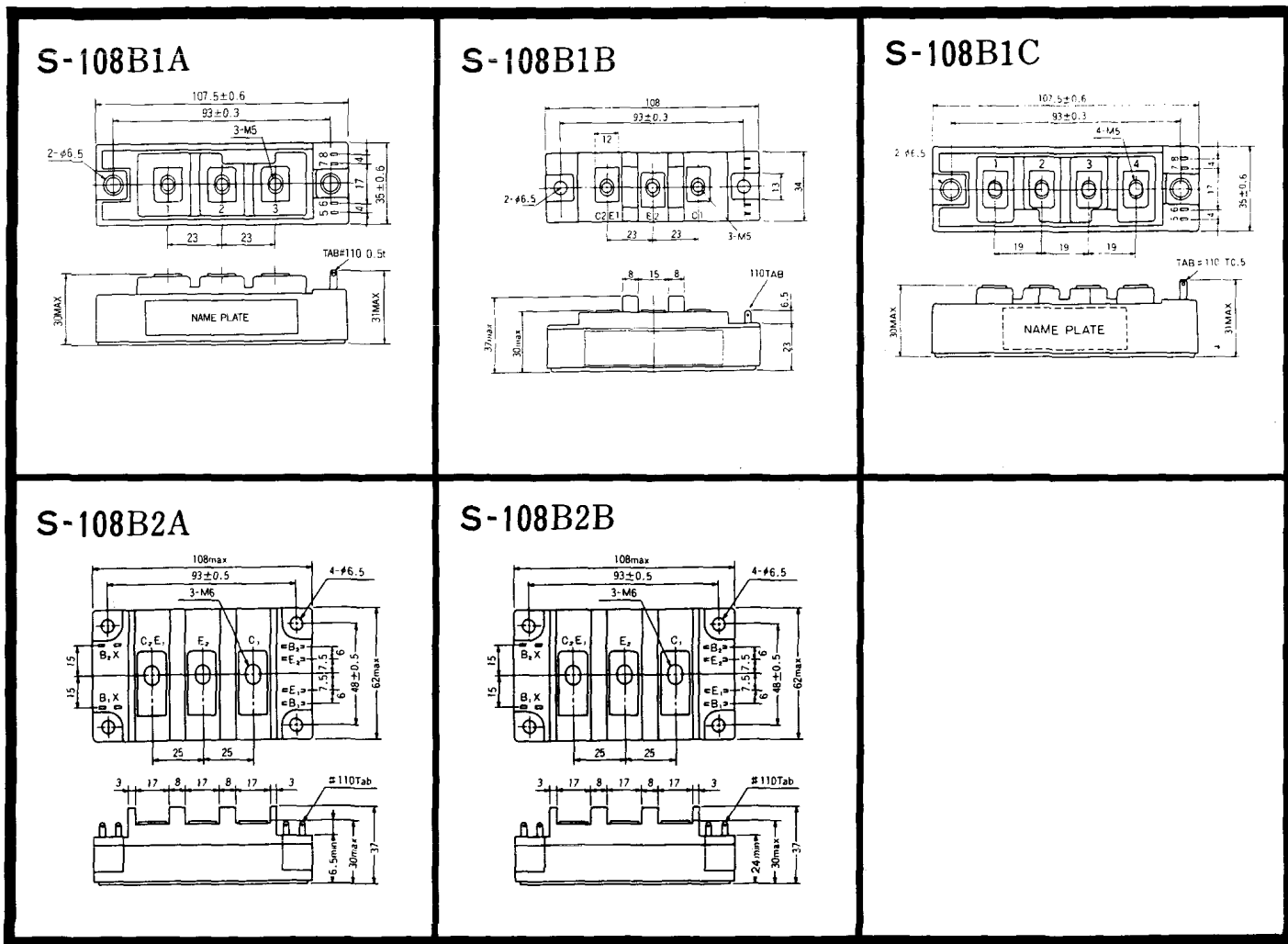
<http://store.iic.cc/>

《寸法図単位：mm》



<http://store.iicc.cc/>

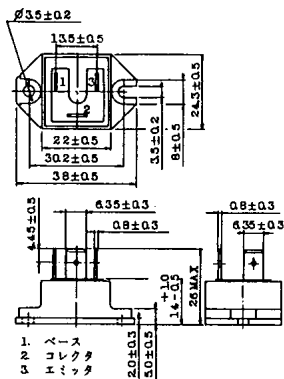
〈寸法図単位：mm〉



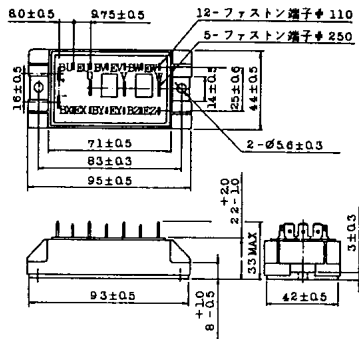
<http://store.iic.cc/>

<寸法图单位:mm>

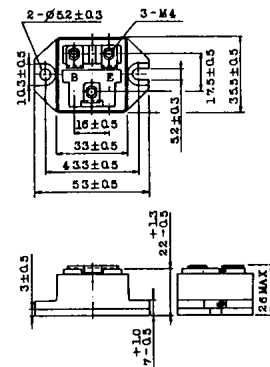
2-22B1A



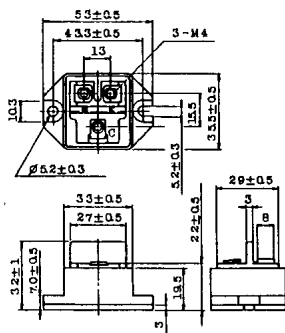
2-27A4A



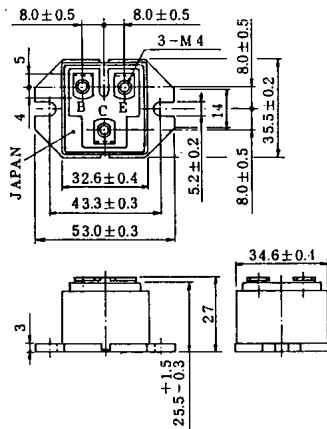
2-33C1A



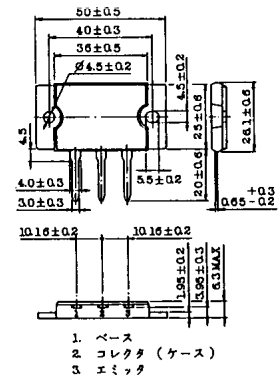
2-33D1A



2-33F1A

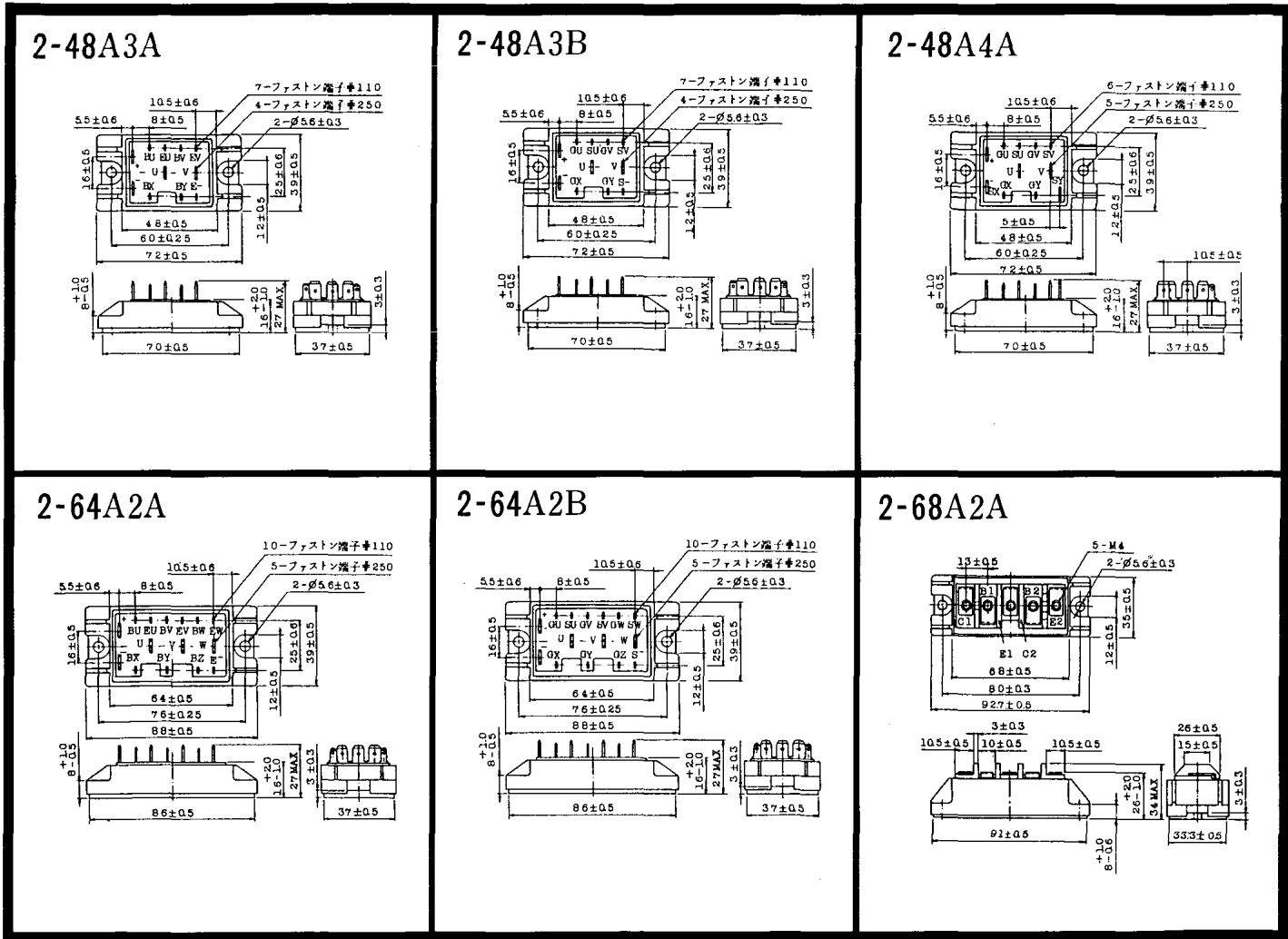


2-37A1A



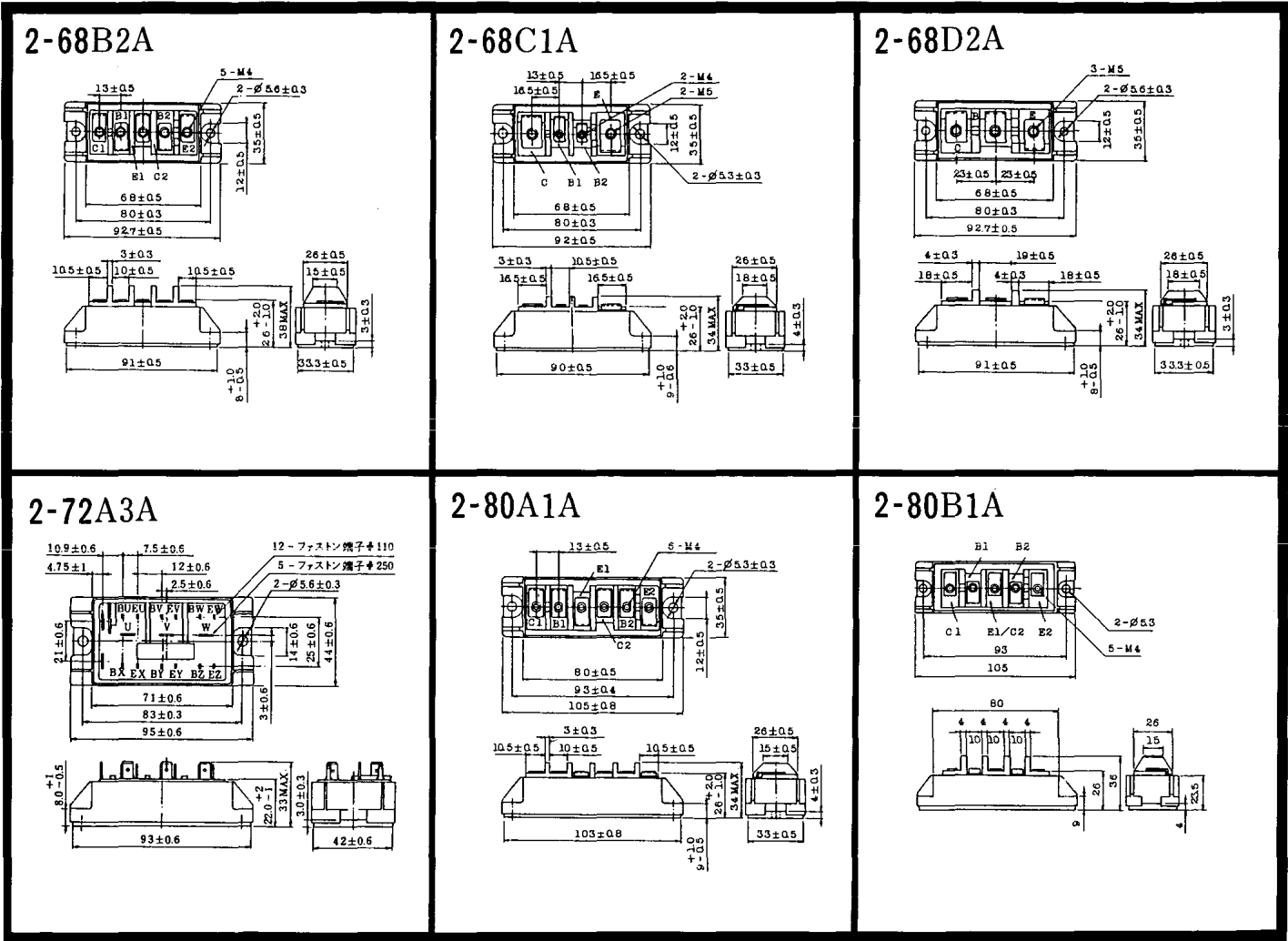
<http://store.iiic.cc/>

《寸法図単位：mm》



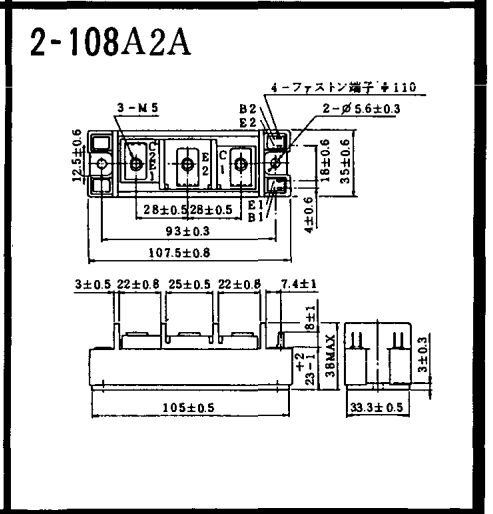
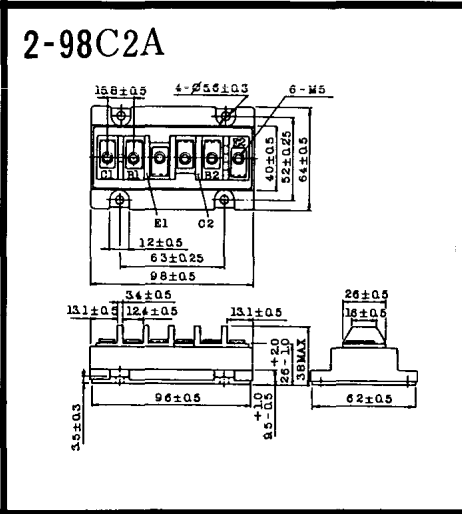
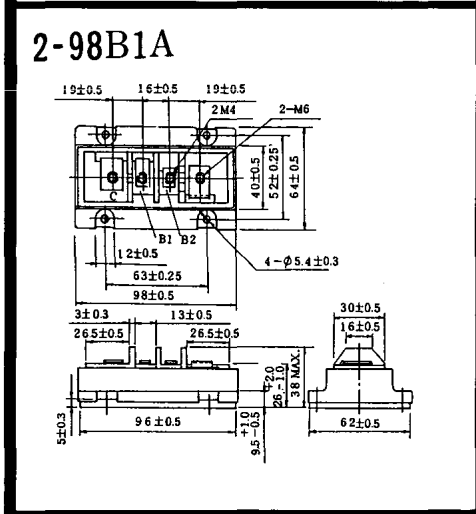
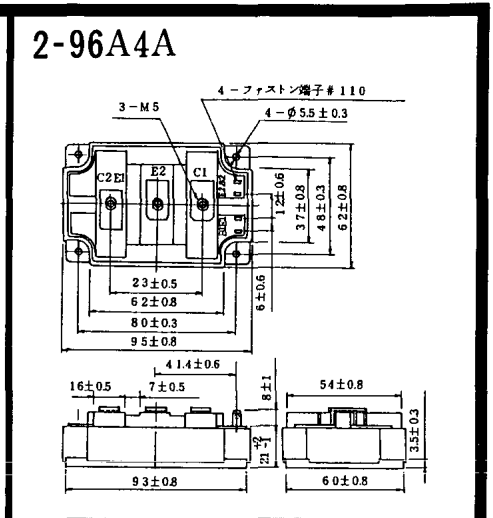
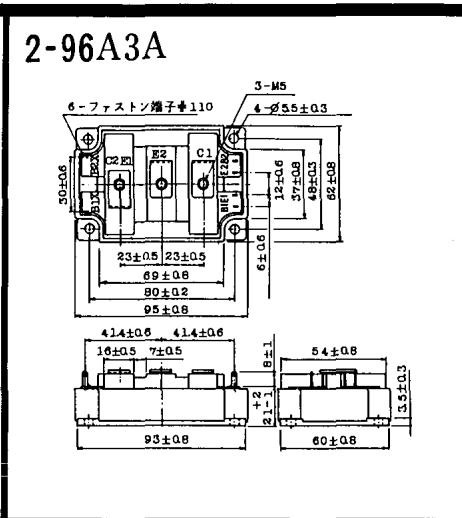
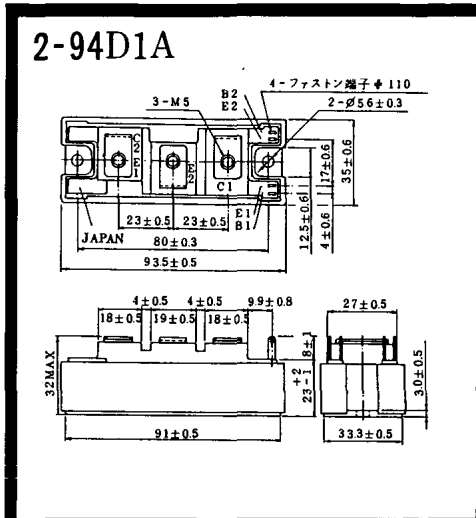
<http://store.iic.cc/>

〈寸法図単位：mm〉



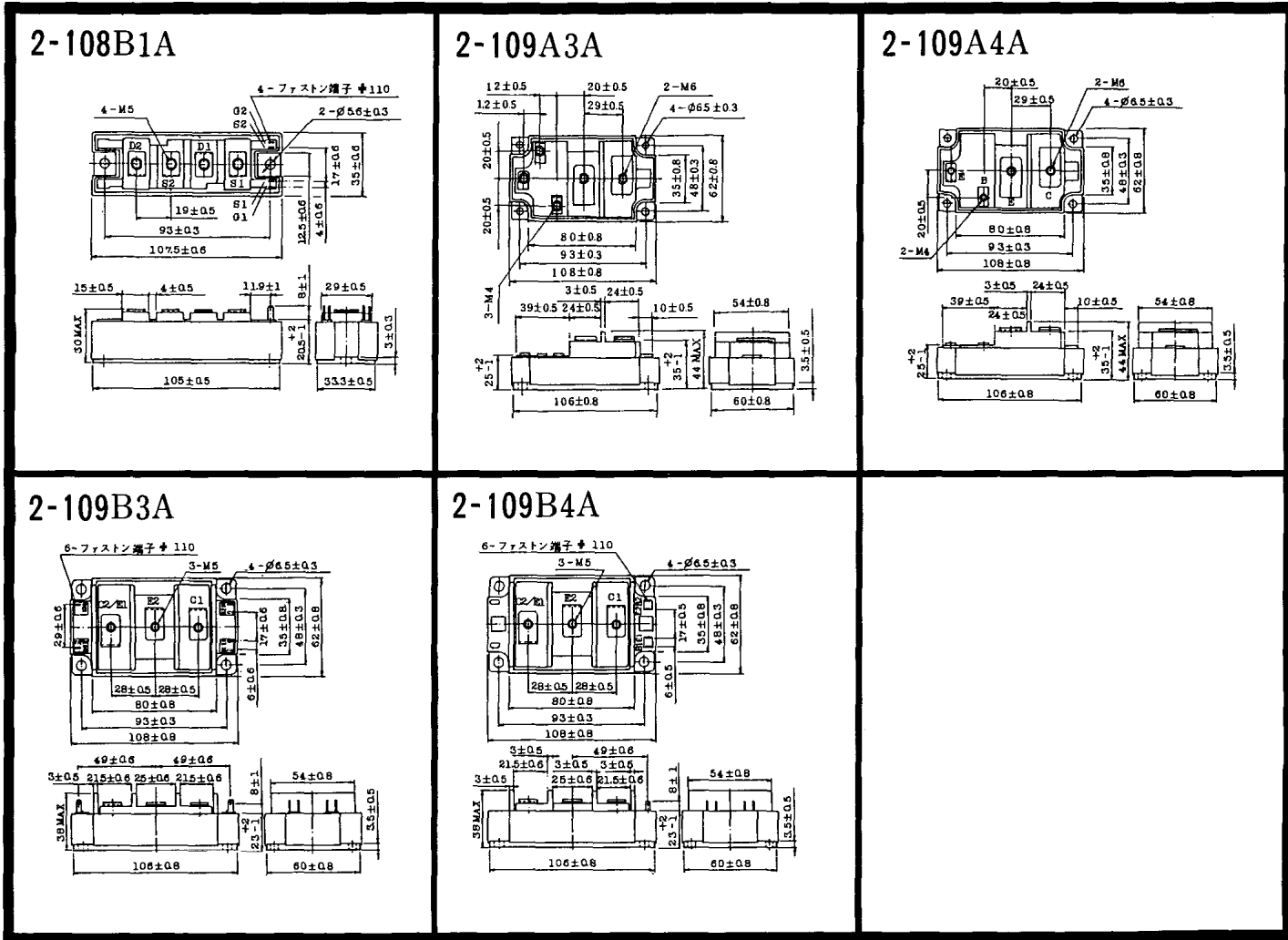
<http://store.iic.cc/>

〈寸法図単位：mm〉



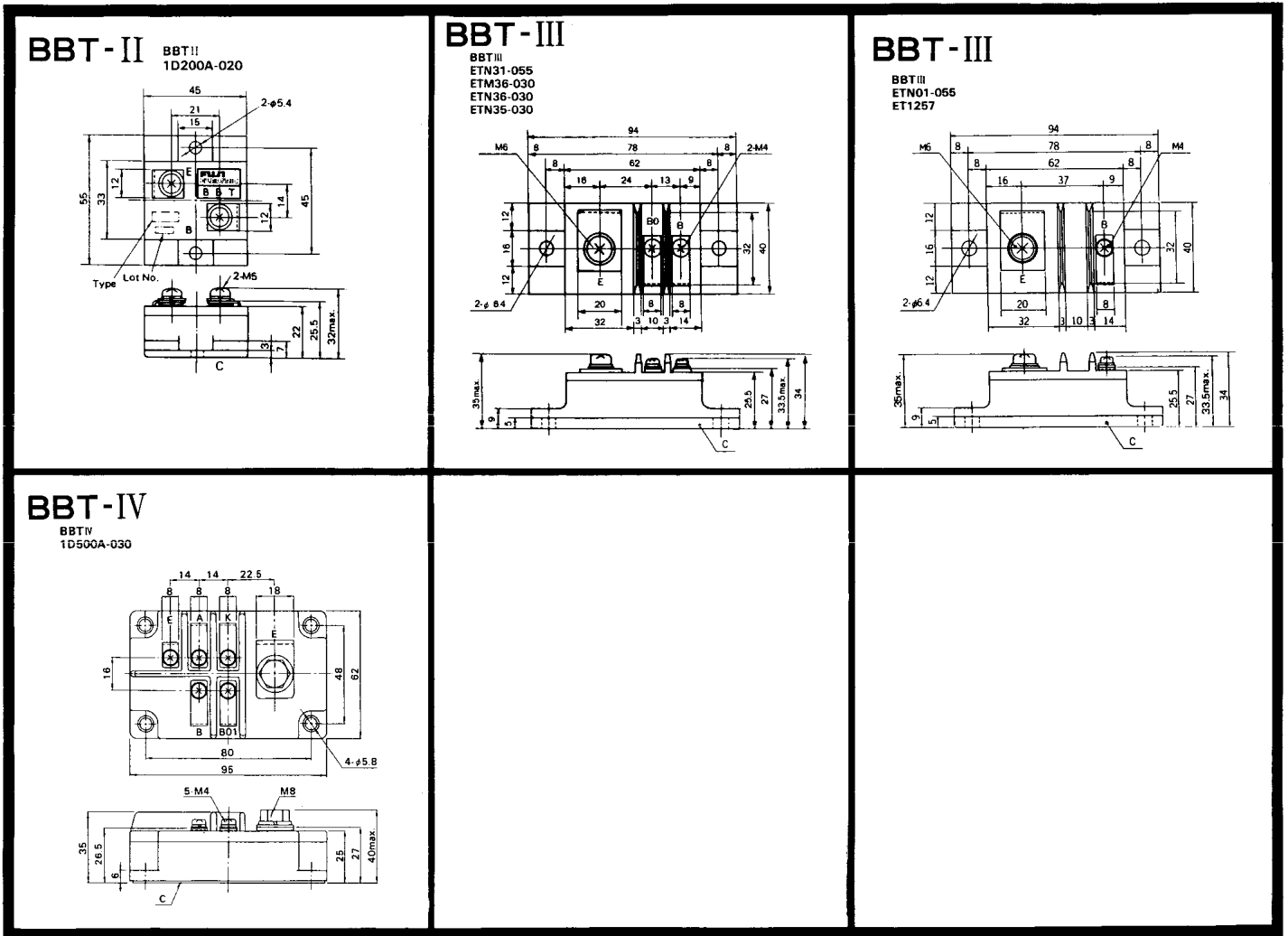
<http://store.iic.cc/>

《寸法図単位：mm》



<寸法図単位：mm>

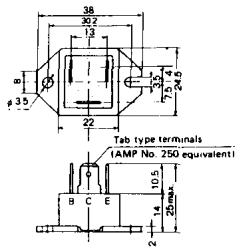
<http://store.iicc.cc/>



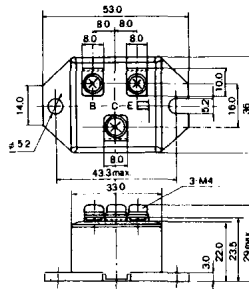
<http://store.iic.cc/>

〈寸法图单位:mm〉

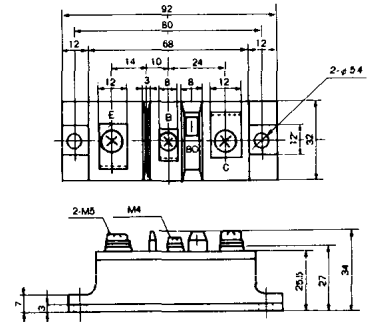
M-101



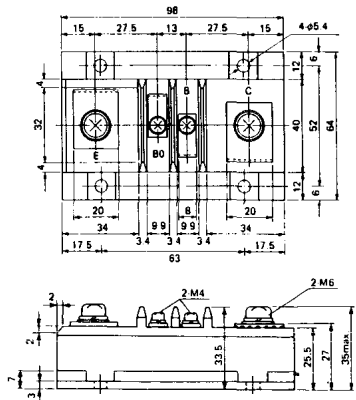
M-102



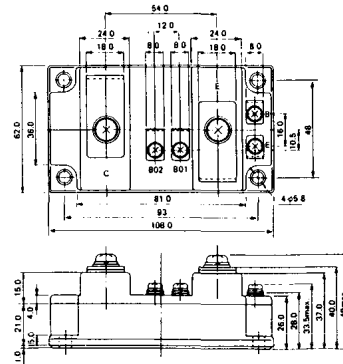
M-103



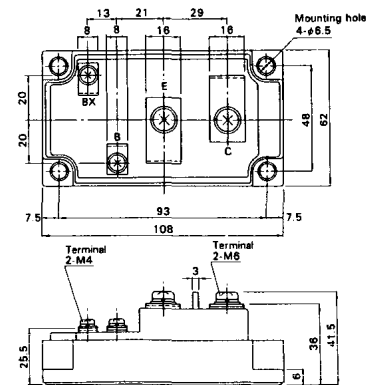
M-104



M-105



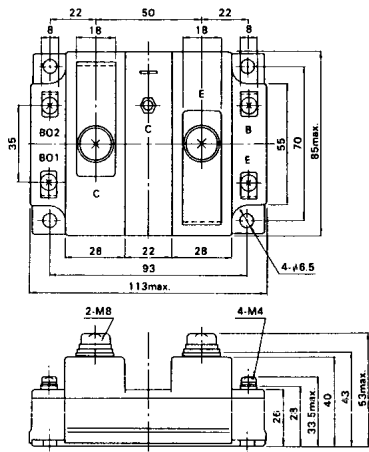
M-106



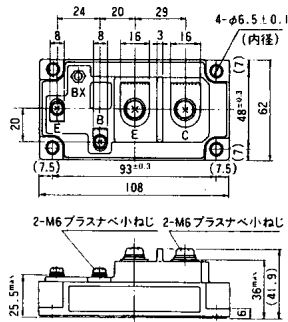
<http://store.iic.cc/>

〈寸法図単位：mm〉

M-107

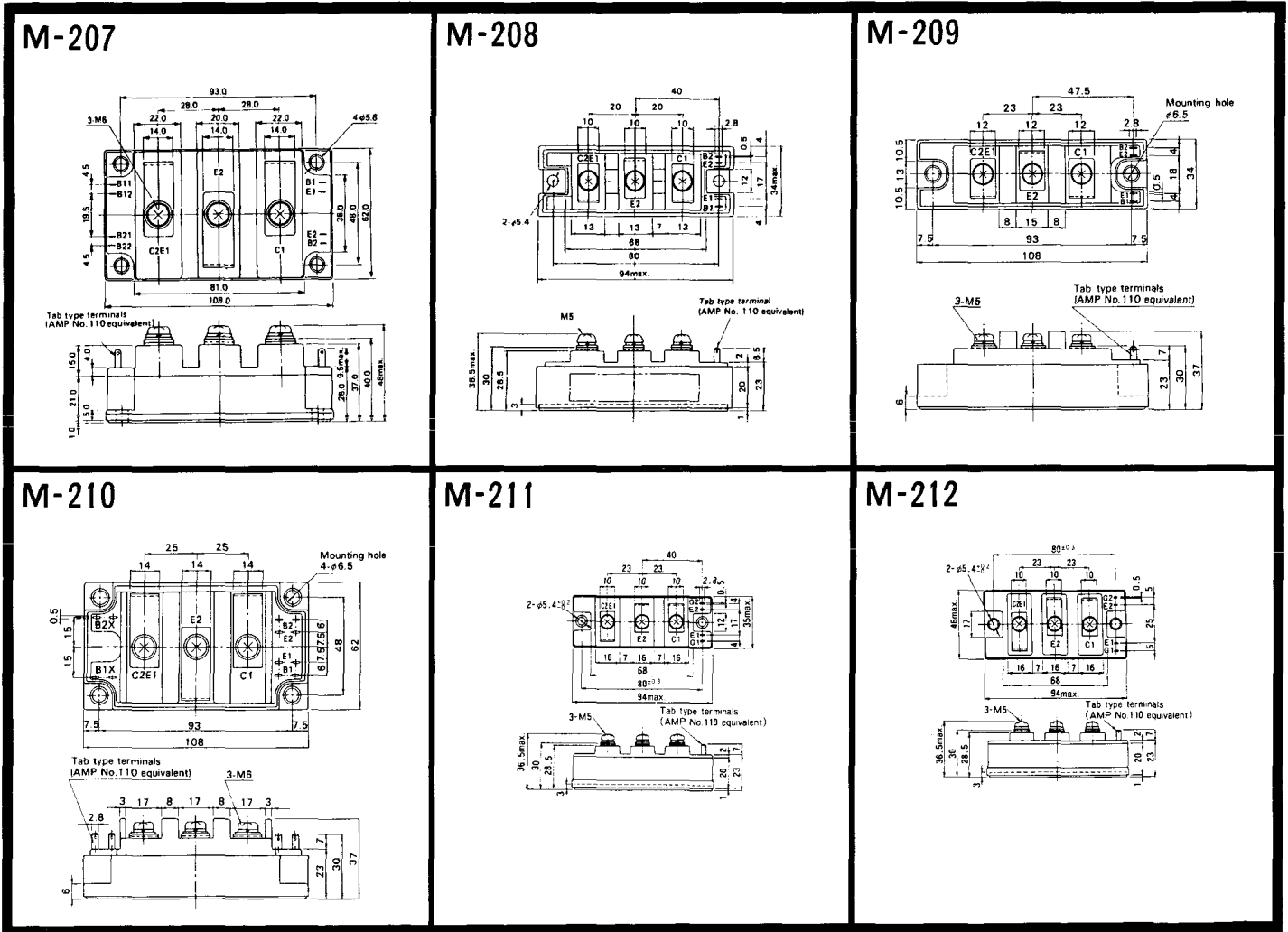


M-116



<http://store.iiic.cc/>

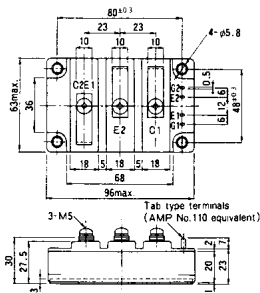
〈寸法図単位：mm〉



《寸法図単位：mm》

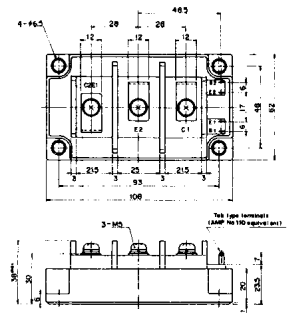
<http://store.iic.cc/>

M-213

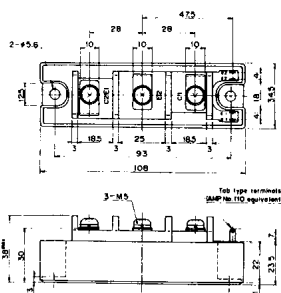


M-214

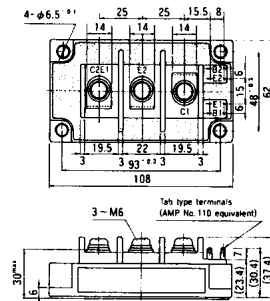
M-215



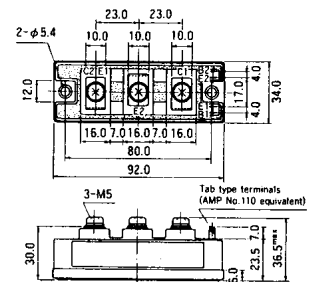
M-216



M-217



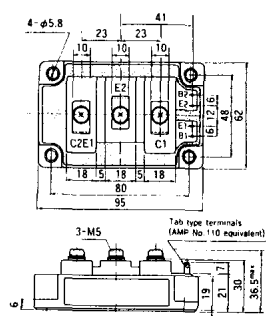
M-218



〈 寸法図単位:mm 〉

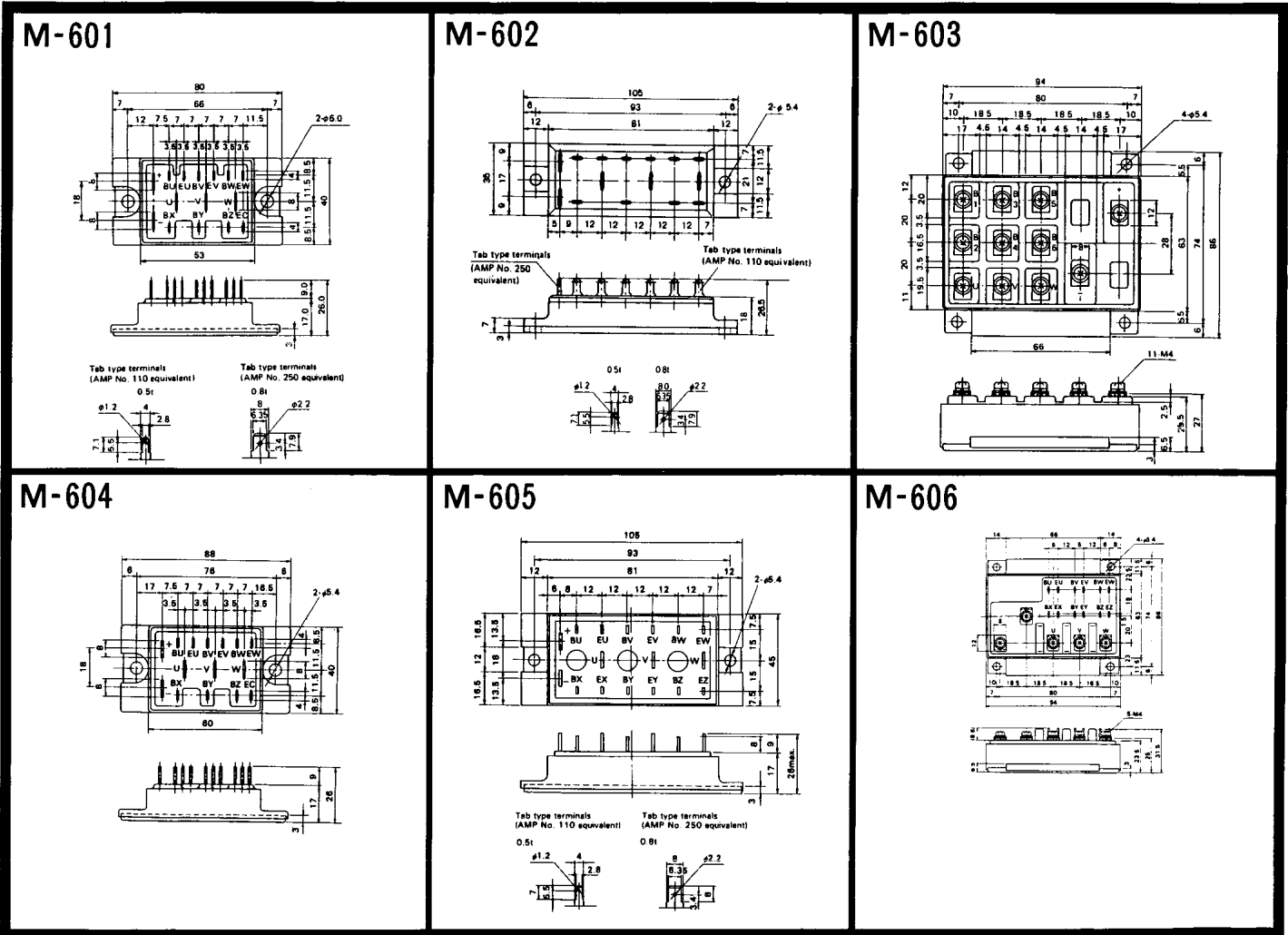
<http://store.iic.cc/>

M-219



<寸法図単位:mm>

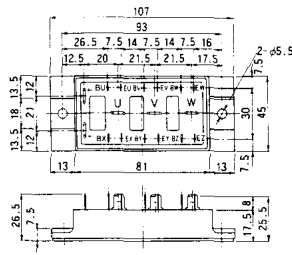
<http://store.iic.cc/>



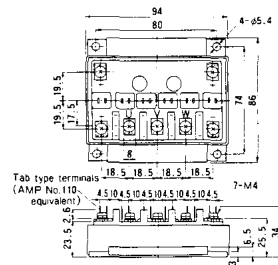
《寸法図単位：mm》

<http://store.iiic.cc/>

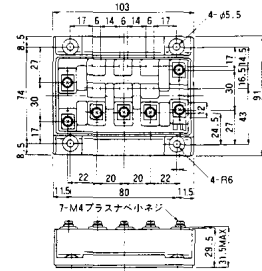
M-607



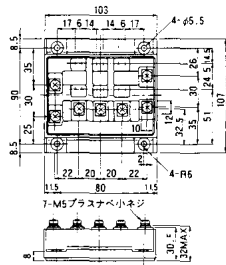
M-608



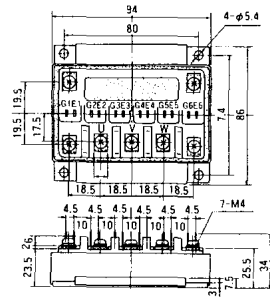
M-609



M-610



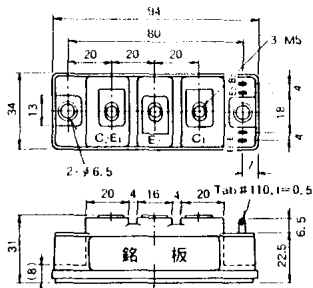
M-616



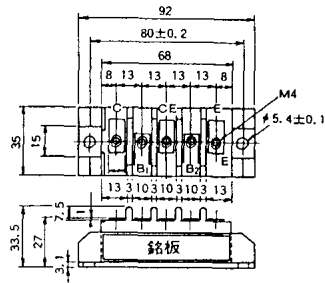
《寸法図単位:mm》

<http://store.iic.cc/>

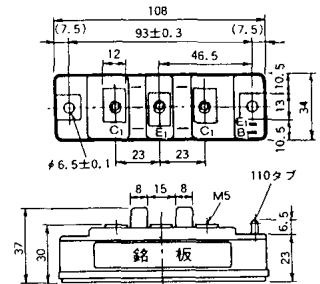
M-4A2B



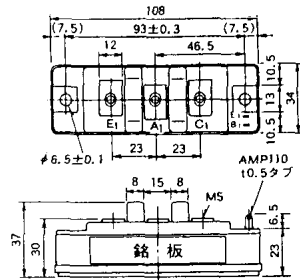
M-4B2A



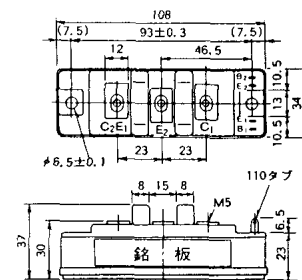
M-5A1A



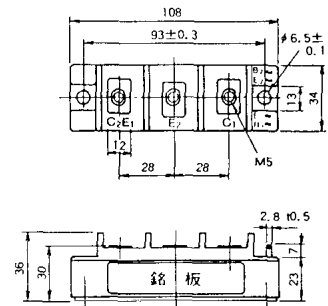
M-5A1B



M-5A2A



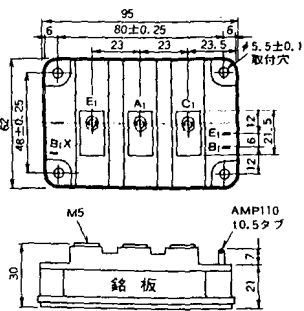
M-5B2A



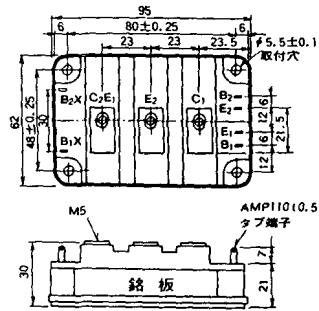
《寸法図単位:mm》

<http://store.iic.cc/>

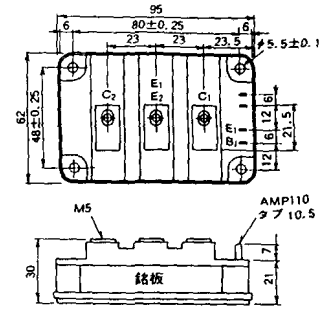
M-8A1B



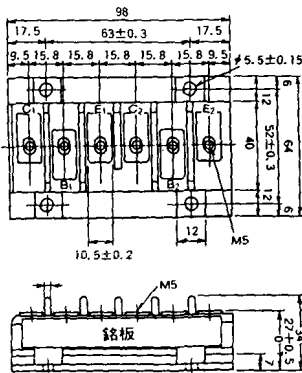
M-8A2A



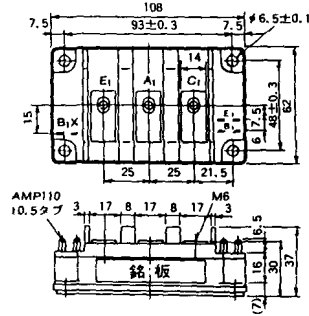
M-8A2B



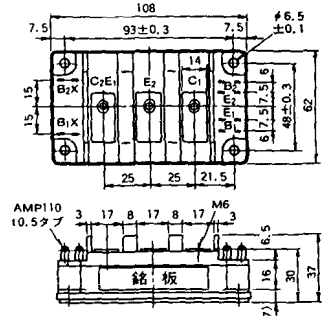
M-8B2A



M-9A1A

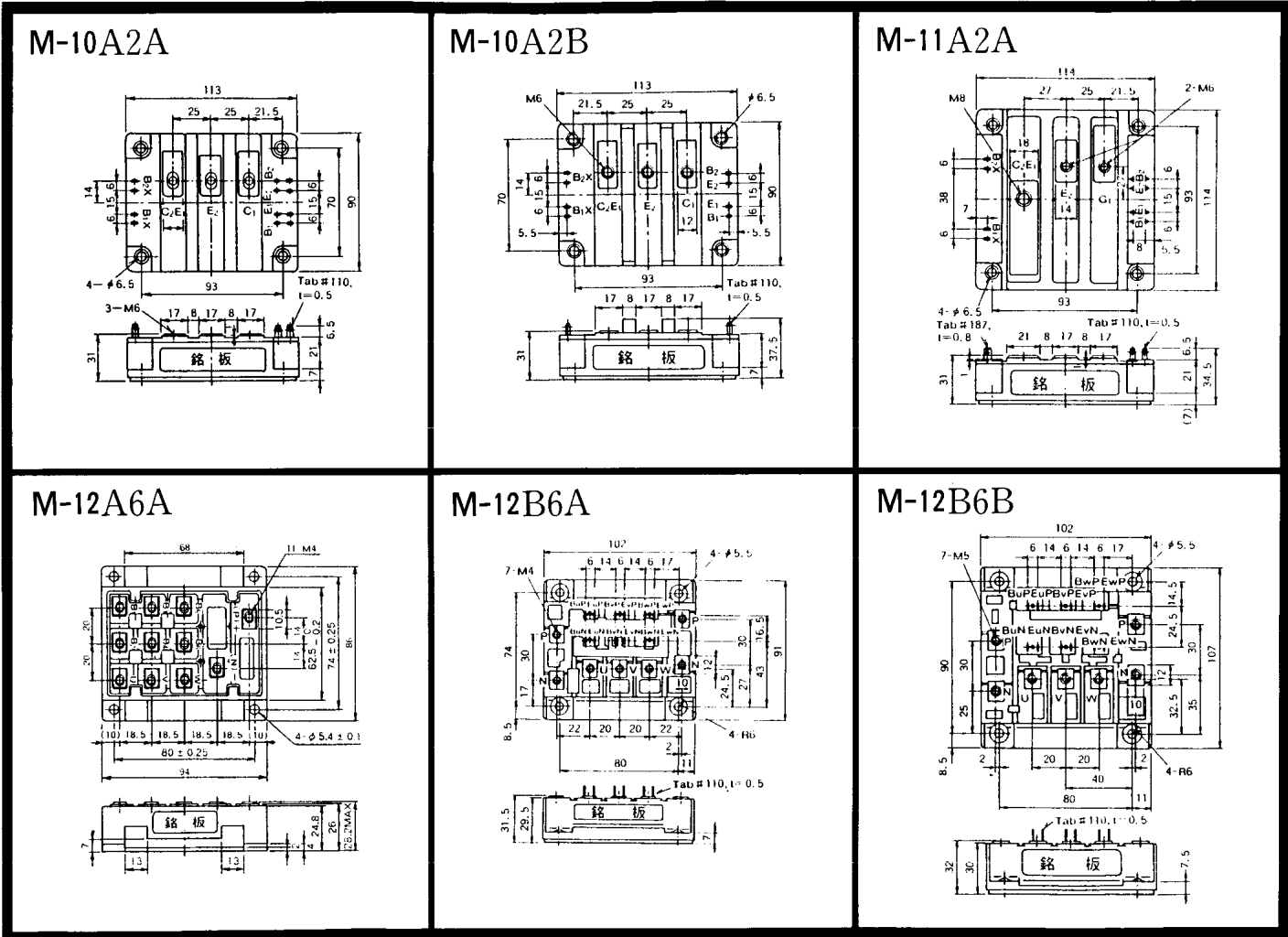


M-9A2A



《寸法図単位:mm》

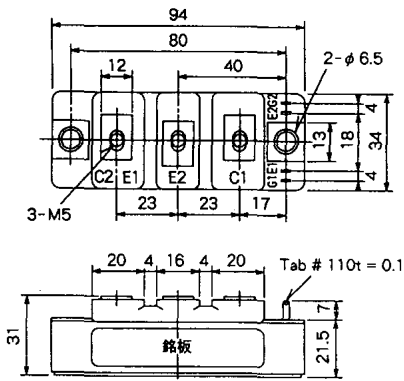
<http://store.iic.cc/>



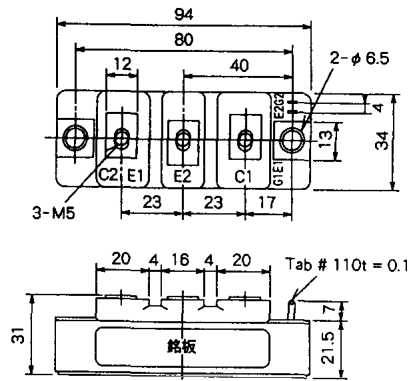
《寸法図単位：mm》

<http://store.iic.cc/>

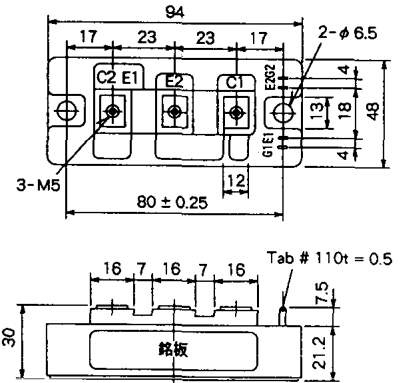
M-4A2D



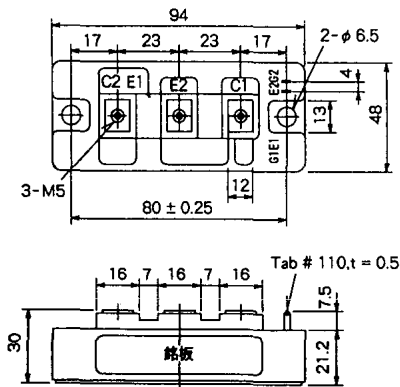
M-4A2E



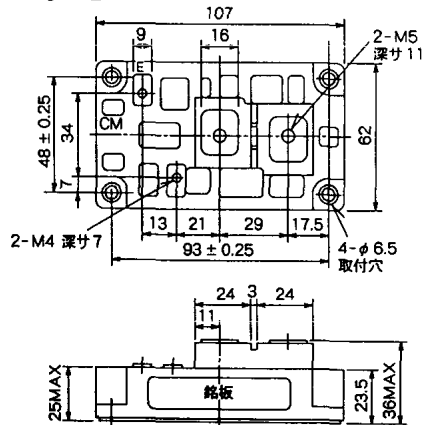
M-4C2A



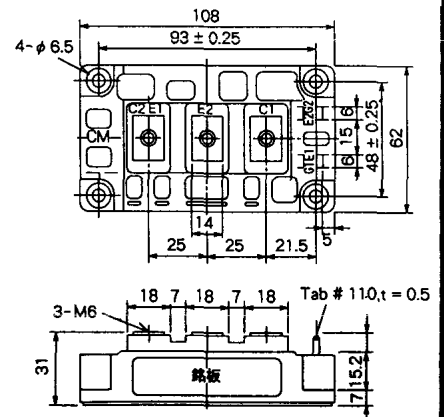
M-4C2B



M-9B1C

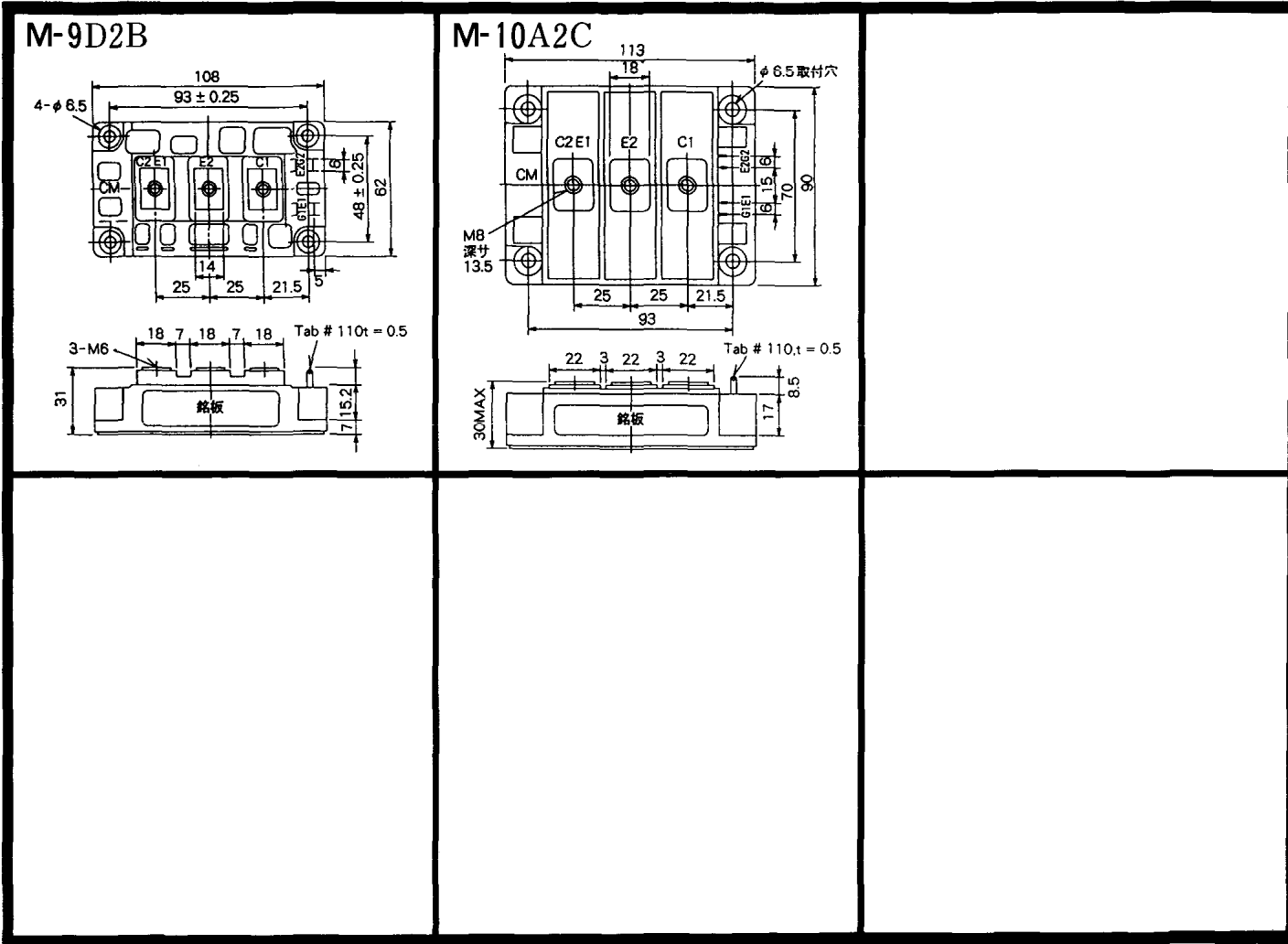


M-9D2A



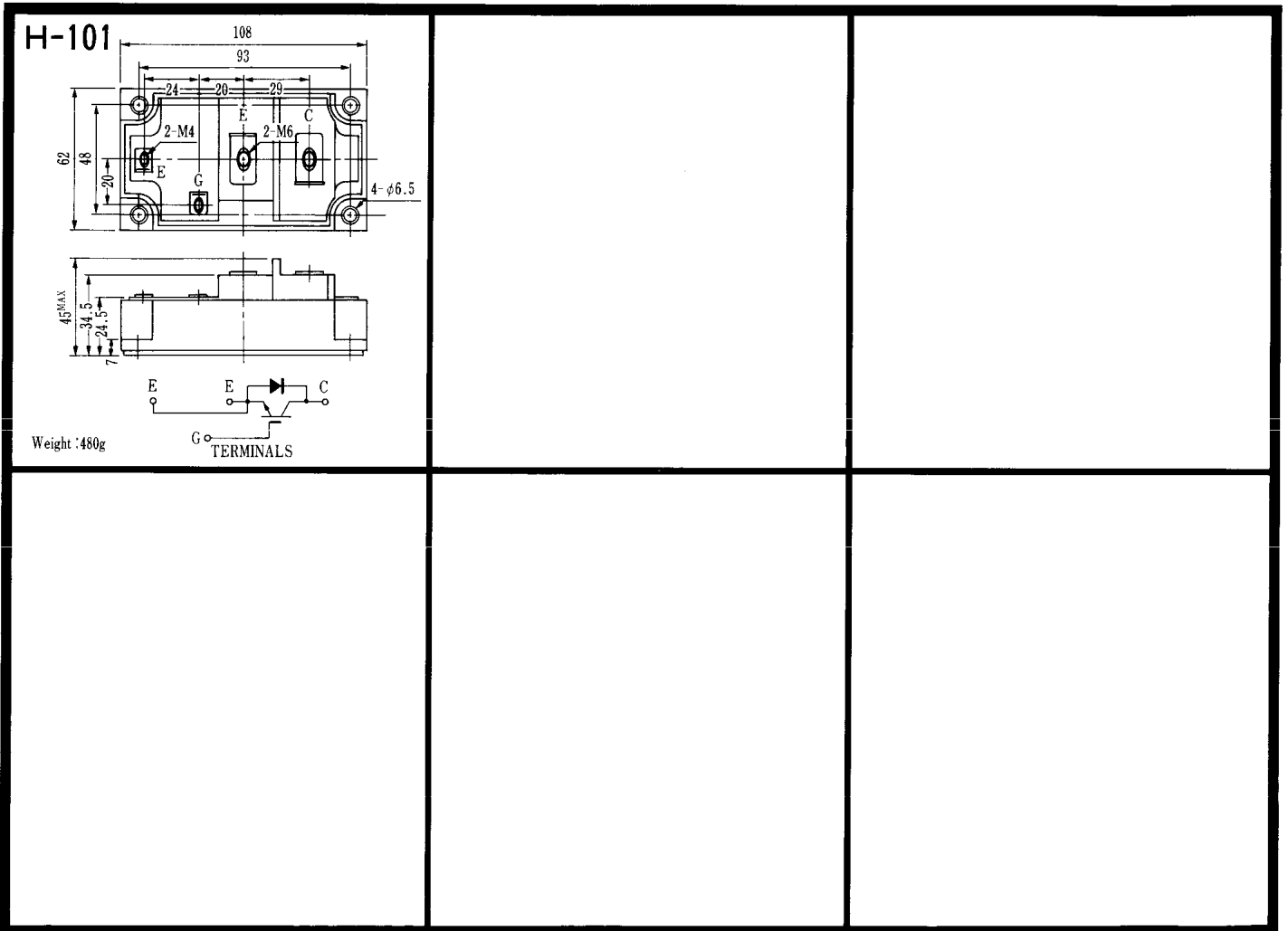
〈寸法图单位：mm〉

<http://store.iic.cc/>



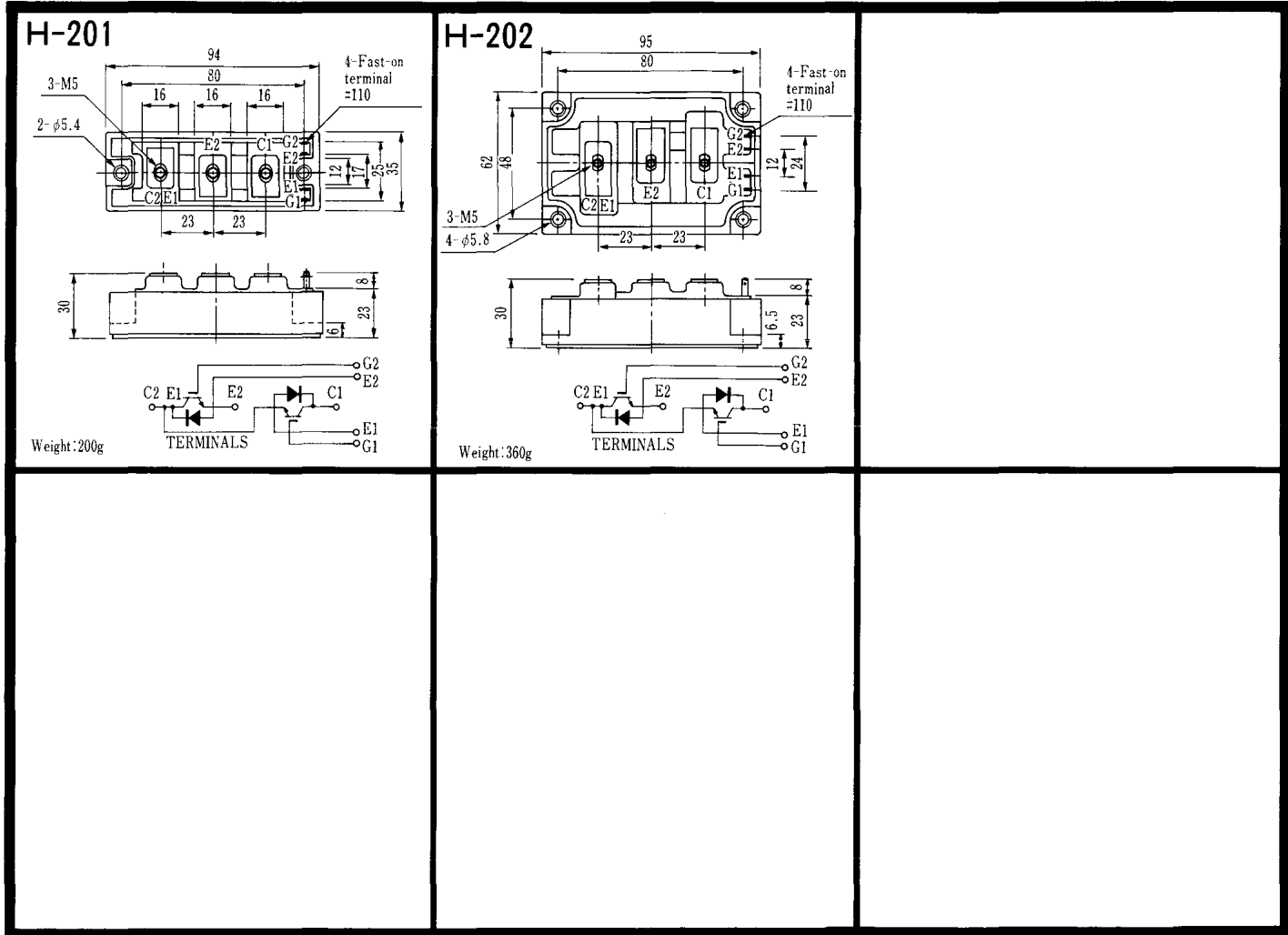
〈寸法図単位：mm〉

<http://store.iic.cc/>



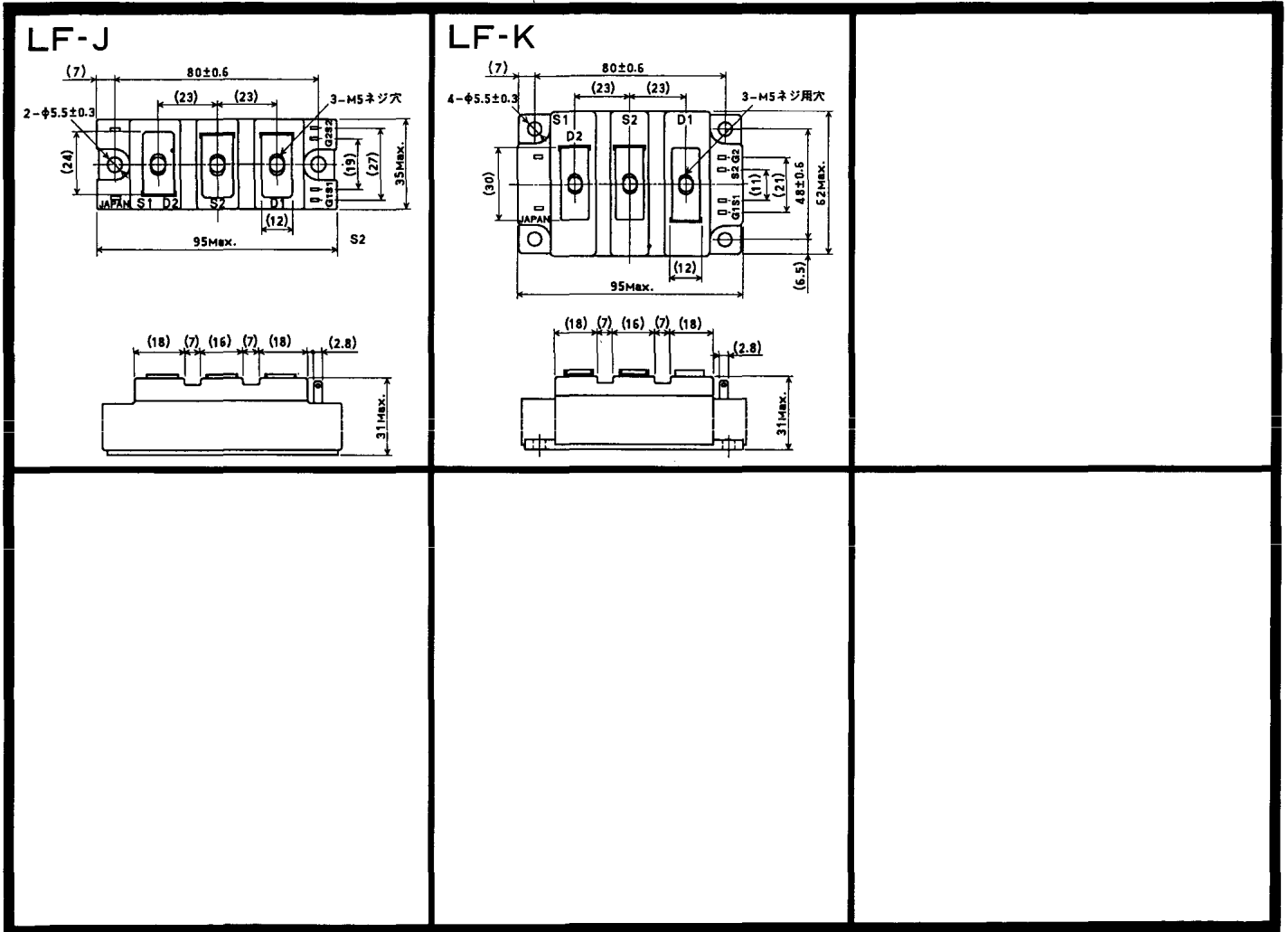
<http://store.iic.cc/>

《寸法图单位:mm》



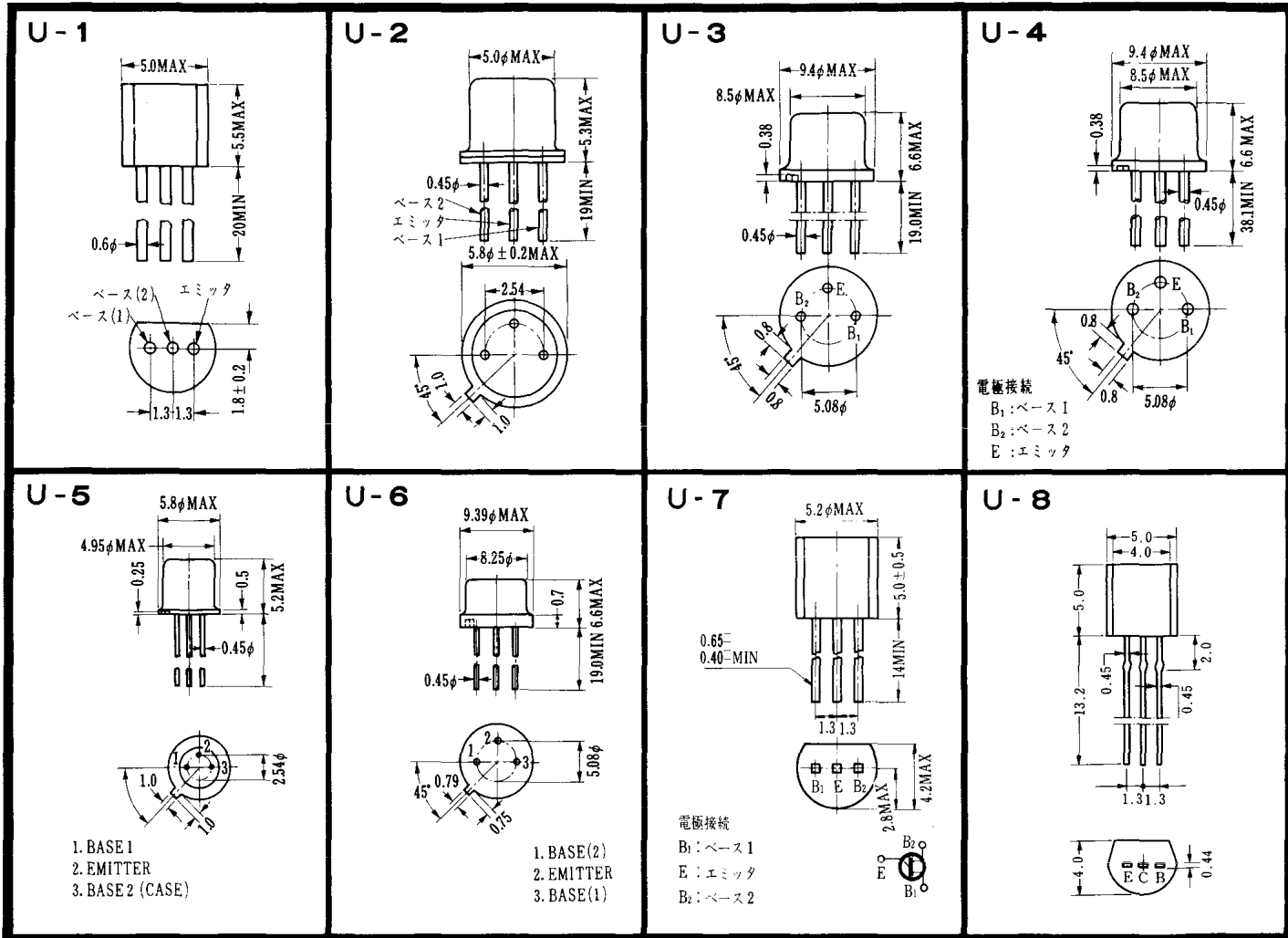
〈寸法図単位:mm〉

<http://store.iic.cc/>



〈寸法図単位：mm〉

<http://store.iic.cc/>



〈寸法図単位: mm〉

<http://store.iic.cc/>