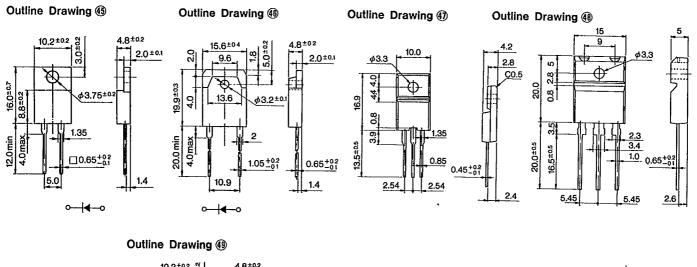
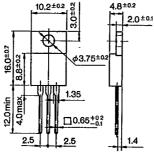
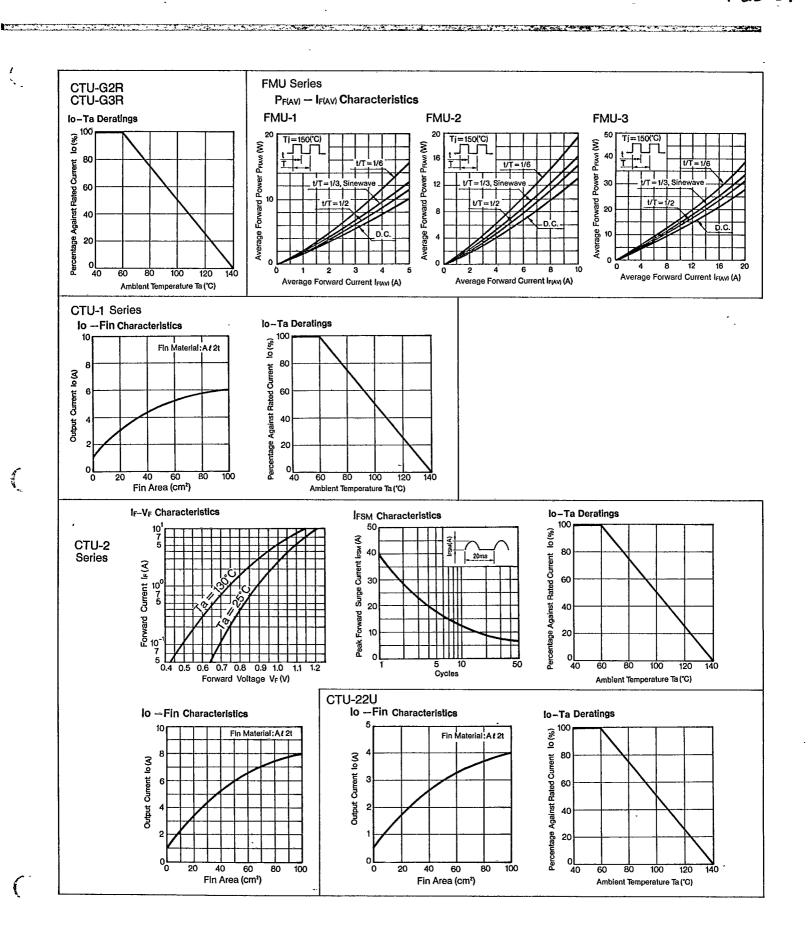
CTU/FMU

Rating/	Absolute Maximum Ratings						E	Electrical Characteristics(Ta=25°C)					Others			
Characteristics	Vrsm (V)	VRM (V)	lo IFSM (A) (A)		Tj Tstg (°C) (°C)		VF (V)		$ \begin{array}{c c} I_{R} & I_{R(H)} \\ (\mu A) & (\mu A) \end{array} $		trr (μs)		e ing	ıt(g)	bu	
Type No.			With Fin	50Hz Half Sine Wave Single Pulse			Max. perchip	1⊧ (A)	VR=VRM max(perchip)	V _R =V _{RM} , Ta=100°C max(per chip)		lF/IRP (mA)		Weight(g)	Taping	Connections
CTU-G2DR	1350	1300	4.0	40	-40~+140	20	4,0	4,0 100				45	2.6	··· ···		
CTU-G3DR	1350	1300	6.0	60	-40~	2 + 140	140 2.0	6.0 100				46	6.1	1	○ ◀0	
FMU-12S, R	250	200	5.0	30			1									
FMU-14S, R	450	400						2.5								
FMU-16S, R	650	600														
FMU-21S, R	150	100	10	40 .			1.5	5.0		500 0.4			Ð	2.1		
FMU-22S, R	250	200			-40~+150	50			100/100		W	<i></i>				
FMU-24S, R	450	400							0,4						S Type ° ► + - + + + + + •	
FMU-26S, R	650	600														
FMU-32S, R	250	200	20	_ 80				10					5.5			
FMU-34S, R	450	400~													·	
FMU-36S, R	650	600											48	5.5		R Type ∘ l€_∫▶l ∘
CTU-12S, R	250	200	6.0		40~+140			3.0								
CTU-14S, R	450	400		30									1			
CTU-16S, R	650	600				2.0	0.0									
CTU-21S, R	150	100	8.0	40							10/10	(49)	26			
CTU-22S, R	250	200										69	2.6			
CTU-24S, R	450	400						5.0								
CTU-26S, R	650	600														





4 - Plastic Molded Flammability : UL94V-0 or Equivalent

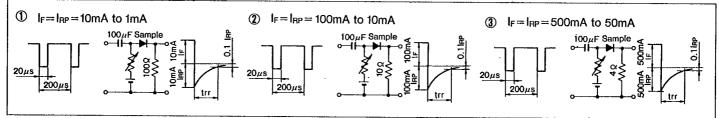


SANKEN ELECTRIC CO LTD 35E D 37990741 0000790 2 38 SAKJ 7-90-20

Symbols/trr: Measurement Circuit

			-			
Vrsm	Peak Reverse Surge Voltage	IRSM	Peak Reverse Surge Current	Tstg -	Storage Temperature	
Vrm	Peak Reverse Voltage	le	Reverse Current	trr	Reverse Recovery Time	
VP-P	Reverse Voltage (Peak to Peak)	RP	Peak Reverse Current	Ct	Total Capacitance Between	
VR	Reverse Voltage	R(H)	Reverse Current (High Temperature)	•	Terminals	
/F	Forward Voltage	Iz	Avalanche Current	Rth(j-c)	Thermal Resistance, Junction to Case	
/в	Breakdown Voltage	Izsm	Allowable Avalanche Current	rz	Temperature Coefficient of Breakdown Voltage	
0	Average Rectified Forward Current	Та	Ambient Temperature	Rz	Equivalent Resistance of	
F	Forward Current	Τí	Junction Temperature		Breakdown Region	
-/	Average Forward Current			PF(AV)	Average Forward Power Dissipation	
F(AV)	Average Polward Cuttern	Topr	Operating Ambient Temperature	l²t	I ² t limiting Value	

Reverse Recovery Time Measurement Circuit



Taping Specifications

Excluding High Voltage Diodes

Designation	Dimension (in mm)	Packaging Dimension and Marking	Quantity
v	Tape Carrier Method $4.5^{\pm 0.2}$ $4.5^{\pm 0.2}$ $4.0^{\pm 0.1}$ $4.5^{\pm 0.2}$ $4.0^{\pm 0.1}$ $4.5^{\pm 0.2}$ $4.0^{\pm 0.1}$ $1.35^{\pm 0.4}$ 2.0 $1.35^{\pm 0.4}$ $1.5^{\pm 0.2}$ $1.5^{\pm 0.2}$ $1.5^{\pm 0.2}$ 0 $0.0^{\pm 0.1}$ 2.0 0	Reel Marking of Type No., Lot No. and Quantity	1,800 pcs per reel
Add Suffix [V] to Type No.	(1) Right side of taping direction is cathode. (2) Place electrode side down when casing. (3) Provide leader tape of 150~200mm at beginning of tape. (4) Provide space of more than 10 pitches each for beginning and end of tape.	\$	ì
	Axial Taping	Reel	
V		Markings of Type No. Lot No. 15 ^{±2} and Quantity Core Flange N N N N N N N N N N N N N N N	5,000 pcs per reel (2.7 ϕ bod
Add Suffix [V] to type No.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Stopper 81±2	3,000 pcs pe reél (4.0 <i>ø</i> boo

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SANKEN ELECTRIC CO LTD 35E D 3790741 0000791 4 3 SAKJ 7-90-20

Taping Specifications

Designation Dimension (in mm) **Packaging Dimension and Marking** Quantity **Ammunition Pack Axial Taping** 1.0+05 Broken Line: Perforation 2,000 pcs per **V1** Æ box $(2.7\phi body)$ Œ f h 5.08 1,000 pcs per =D3 (White $box(4.0\phi body)$ +5 255max 52.0 % Add Suffix [V1] 6.0 to Type No. Markings of Type No. Lot No. and Quantity 0.5ma 0.5max Ammunition Pack Broken Line : Perforation **Axial Taping** 1.0⁺⁰⁵ VO 2,000 pcs per 35max ٦ box (2.7 ϕ body) 5.08 $(2.4\phi body)$ 由 5 0 E 26.0+1 255max Add Suffix [VO] Markings of Type No. Lot No. and Quantity to Type No. 0.6max Axial Taping Markings of Type No. Lot No. Reel 🗍 0.5ma) $1.0^{+0.5}_{-1.0}$ 15^{±2} and Quantity Flange Core **V3** -1-1,500 pcs per FIJ reel (5.2 ϕ body) Add Suffix [V3] 52.0 +5 Q 75± to Type No. 0.5max Stopper 81 **Axial Taping** Broken Line ; 0.5max Ammunition Perforation Pack V4 1,000 pcs per Trade Ma õ box (5.2 ϕ body) Œ ŝ Add Suffix [V4] 52.0 ¥5 255max to Type No. 0.6ma Markings of Type No Lot No. and Quantity 6.35^{±1.3} Ammunition Pack Broken Line: Perforation **Radial Taping** 12.7 ±10 0±02 3,85^{±07} W 仓 ANODE Ø 4,000 pcs per 1040% box (2.7 ϕ body) (0.6*\phi* lead) 18.0+ Add Suffix [W] 340 \$4.0^{±0.2} 7±03 to Type No. Markings of Type No, Lot No. and Quantity **Radial Taping** 6.35^{±1.3} 12.7^{±1.0} **Ammunition Pack** (Applicable to AO Series) WS Markings of Type No. Lot No. and Quantity 0 Ø φ4.0² 50 3.85 å. Add Suffix [WS] 10 ANODE to Type No. 2,500 pcs per 5.0 ±10 5.0 ±08 $box(2.4\phi body)$ **Radial Taping** (Applicable to AO Series) WK 2.75±0 340max 19.8 ±1.0 1.5 23 16.5 64.0±0.3 <u>±</u>02 Add Suffix [WK] 3.0±02 3.85±07 to Type No. 127 ±10

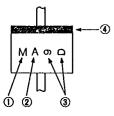
6

SANKEN ELECTRIC CO LTD

7990741 0000792 6 📾 SAKJ*T-90-*30 35E D

CITICIE

MSmall TMD



()Type Designation (in abbreviation) AM01 is abbreviated as M. ②Class Designation

- Z:200V, No Letter: 400V, A:600V
- ③A: Year (Last Number of AD Year) B:Month (Jan. to Sept. are represented by numbers 1 to 9 respectively, and Oct., Nov., and Dec. are abbreviated as O, N and D respectively)

④Cathode Band: Successive Band, however AU02 Type is Non-Successive Band.

A: Year (Last Number of AD Year)

①Type Designation:Mark in 2 sets

@Production Period:Mark in 4 sets

Yellow: For Middle Speed

①Peak Reverse Voltage Designation

(2)Year (Last Number of AD Year)

A: 1st 10days, B: 2nd 10days

④Divided in 3 ten day terms

Color Designation: Silver

RB602 No Color

RB604 Blue

RB606 White

1, 2, 4, 6, C

Production Period

3Month (1~9, 0, N, D)

C: 3rd 10days

Dot Designation RB601 Violet

B:Month (1~9, 0, N, D)

A:Year (Last Number of AD Year)

③Production Period Divided in 3 ten day terms

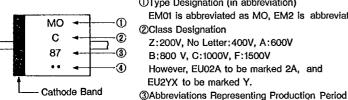
@Cathode Band Color:Silver:For Power Supply

• : 1st 10days •• : 2nd 10days ••• : 3rd 10days

Red : For High Speed and Ultra-High Speed

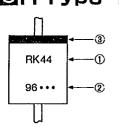
B:Month (1~9, 0, N, D)

PE/EO Type TMD (Type Designation (in abbreviation)



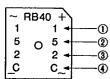
Color:Silver

(a) Production Period Divided in 3 ten day terms • : 1st 10days •• : 2nd 10days ••• : 3rd 10days **OR** Type TMD



2 RB40/60

(RB40 Series)

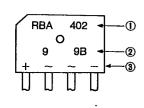




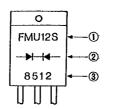




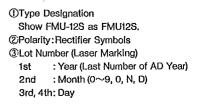
BRBV/RBA



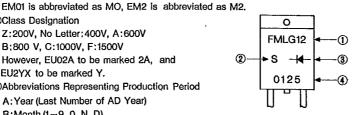
(1)Type Designation ②Lot Number 1st : Year (Last Number of AD Year) 2nd: Month (1~9, 0, N, D) 3rd : Divided 1~3 ten day Terms A: 1st 10 days B: 2nd 10 days C: 3rd 10 days **③In-Put Designation**



GTO220 Type (FM or CT Type)



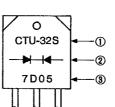
ZTO220Type (FM or CT Type, single chip)



OType Designation:Omit Last Letter Show FML-G12S as FMLG12. ②Last Letter of Type Designation ③Polarity:Recitifier Symbols @Lot Number (Laser Marking) 1st : Year (Last Number of AD Year)

2nd : Month (0~9, 0, N, D) 3rd, 4th: Day

ETOSP Type (FM or CT Type)



OType shown in full designation

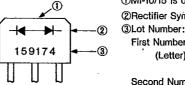
However, CTB-34/34S/34M are marked as CTB-34, CTU-G3DR is marked as CTUG3DR. ②Polarity:Rectifier Symbols

- ③Lot Number: 1) M, U, G and L Types
 - First Number : Last Digit of AD Year Second Number : Month Third and Fourth Numbers: Day Fifth Number : None
- 2) For types CTB-34/34S/34M, the fifth letter shows type designation. If no fifth number, the type is CTB-33 or CTB-34,
- 3) Marking Color:Silver

First Number

(Letter)

@MI-10/15 Type



①MI-10/15 is die-stamped on the top of the case. **@Rectifier Symbols**

:Peak Reverse Voltage: 0=50V, 1=100V, 2=200V, 4=400V, 6=600V, C=1000V Second Number ; Last Digit of AD Year Third Number :Month Fourth and Fifth Numbers: Day Sixth Number :Production number and

U:Voltage Doubler Type





()Type Designation: SFPB-64 is abbreviated at B64, ②Cathode Band

7