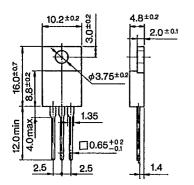
35E D ₹ 7990741 0000817 7 ₹ SAKJT-23-07

CTG

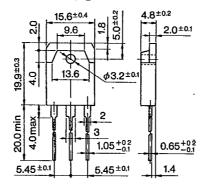
Rating/ Characteristics	Absolute Maximum Ratings						Electrical Characteristics(Ta = 25°C)				Others					
	V _{RSM} (V)	V _{RM} (V)	lo (A)	Iғşм (A)	Tj (°C)	Tstg (°C)	V _F (V)		IR (mA)	I _{R(H)} (mA)	trr (µs)		ine	Weight(g)	Taping	Note
Type No.	per chip		With Fin				Max. perchip	l _F (A)	V _R =V _{RM} max (per chip)	V _R =V _{RM} , Tj=140°C max (per chip)		lF/İRP (mA)	Outline Drawing	Weig	Tag	Ž
CTG-11S	70	70	5.0	35			1.3	2.5	0.5	1.5	0.1	100/100	66			-
CTG-11R	70	70				1.3										
CTG-12S	200	200					1.8									
CTG-12R	200	200					1.0									
CTG-148	400	400					2.0									
CTG-14R	400	400					2.0									
CTG-21S	70	70	10 8.0	65			13	1.8 5.0		2.5			.	2.6	-	_
CTG-21R	70	70			−40~+140								atio.			
CTG-22S	200	200				1.8	66						ë			
CTG-22R	200	200											ğ			
CTG-23S	300	300											χ.			
CTG-23R	300	300											For High Frequency Rectification			
CTG-24S	400	400														2.0
CTG-24R	400	400													↓	ᄕ
CTG-31S	70	70	20	150			1.3	10	1.0	5.0				Ī		豎
CTG-31R	70	70					1.8							6.1		<u>P</u>
CTG-32S	200	200														
CTG-32R	200	200				60										
CTG-33S	300	300														
CTG-33R	300	300														
CTG-34S	400	400	16	100			2.0							l		
CTG-34R	400	400			<u> </u>		"		<u> </u>	l	L		<u> </u>	<u>L</u>		

Thermal Resistance Rth(j-c): 3.0°C/W (CTG-11S~24 R) 1.5°C/W (CTG-31S~34R)

Outline Drawing 66

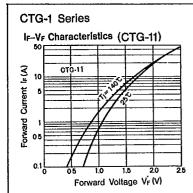


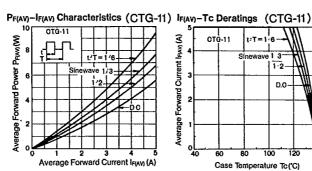
Outline Drawing (f)

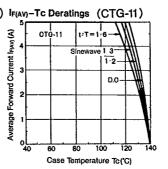


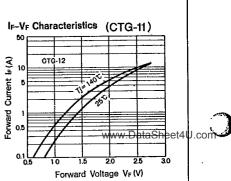
Center Tap Internal Connection: S Type

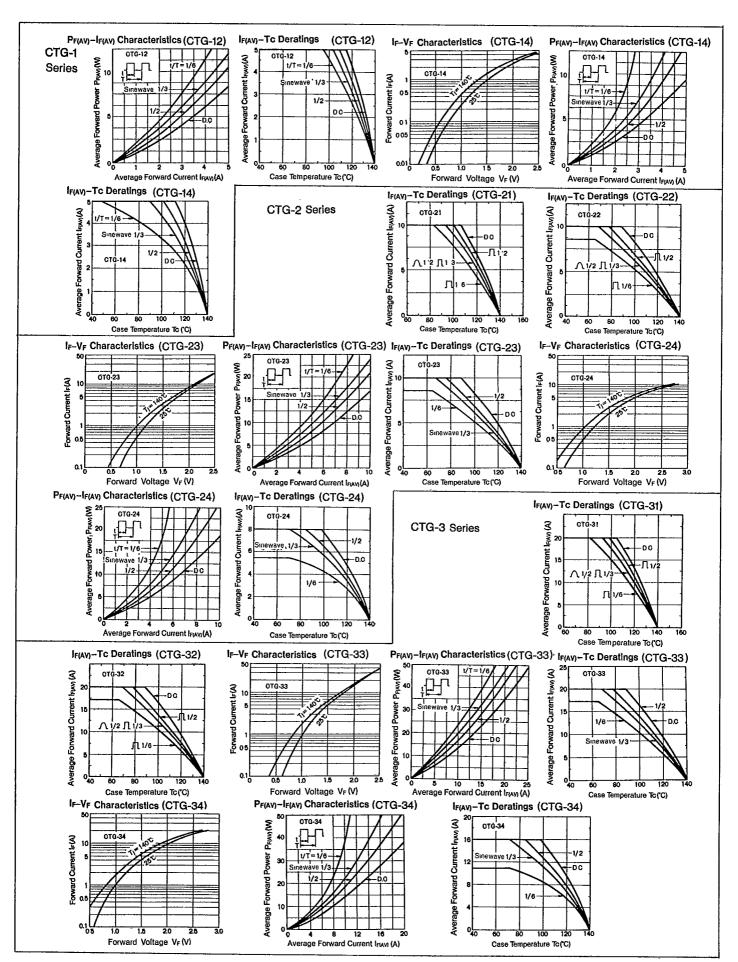
6667 Plastic Molded, Flammability: UL94V-0 or Equivalent







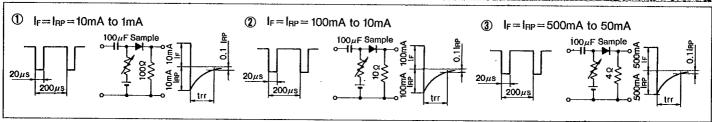




Symbols/trr Measurement Circuit

Symbols Peak Reverse Surge Voltage VRSM IRSM Peak Reverse Surge Current Tstg Storage Temperature Peak Reverse Voltage V_{RM} Reverse Current lĸ trr Reverse Recovery Time Reverse Voltage (Peak to Peak) VP-P lpp Peak Reverse Current Ct Total Capacitance Between Terminals V_{R} Reverse Voltage Reverse Current (High Temperature) IR(H) Thermal Resistance, Junction Rth(j-c) Forward Voltage V_F Ιz Avalanche Current to Case Temperature Coefficient of .rz Vв Breakdown Voltage Izsm Allowable Avalanche Current Breakdown Voltage Average Rectified Forward Current Та **Ambient Temperature** Rz Equivalent Resistance of Breakdown Region **Forward Current** İF Τj Junction Temperature Average Forward Power PF(AV) IF(AV) Average Forward Current Topr Operating Ambient Temperature Dissipation l²t I2t limiting Value Peak Forward Surge Current **IFSM** Тс Case Temperature

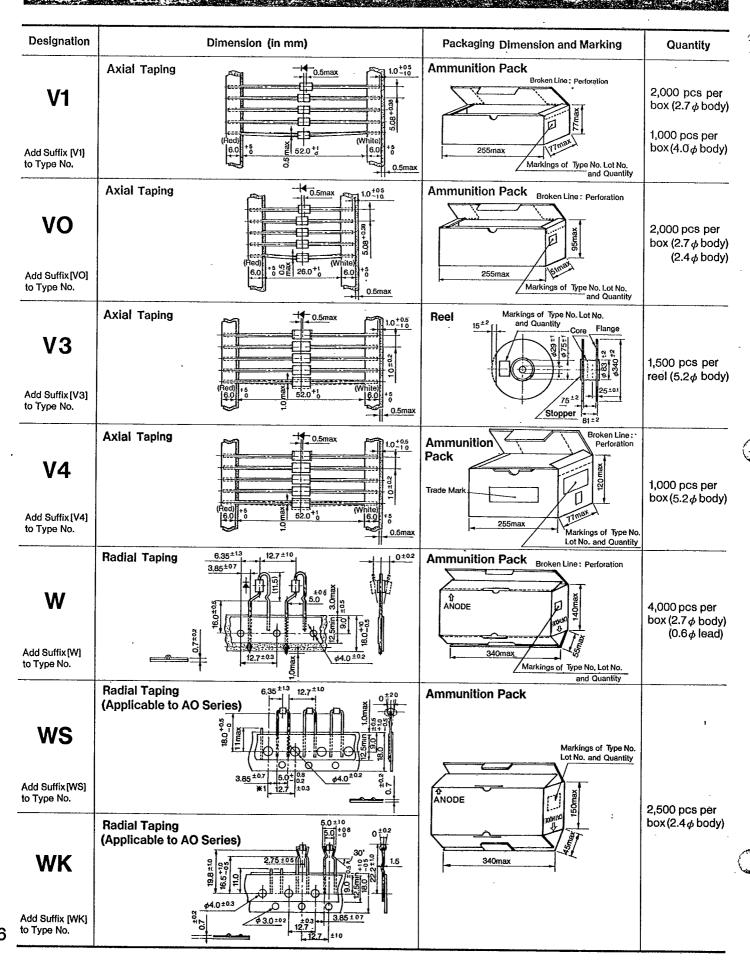
Reverse Recovery Time Measurement Circuit



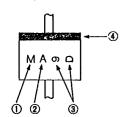
Taping Specifications Excluding High Voltage Diodes

Designation	Dimension (in mm)	Packaging Dimension and Marking	Quantity	
V	Tape Carrier Method $4.5^{\pm0.2}$ $4.0^{\pm0.1}$ $5.1^{\pm0.1}$ $1.5^{\pm0.2}$ Direction to pull out $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$ $4.0^{\pm0.1}$	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.	φ178 ^{±2} 14 2.0 ^{±05}		
V	Axial Taping	Markings of Type No. Lot No. 15 **2 Core Flange Core Flange Core F	5,000 pcs per reel (2.7 φ body	
Add Suffix [V] to type No.	(Red) 5 (White) 6.0 15 (Constant) 6.0 15 (Consta	Stopper 81±2	3,000 pcs per reel (4.0 φ body	

Taping Specifications



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)

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

PE/EO Type TMD

①Type Designation (in abbreviation)

EM01 is abbreviated as MO, EM2 is abbreviated as M2.

2Class Designation

Z:200V, No Letter:400V, A:600V

B:800 V, C:1000V, F:1500V

However, EU02A to be marked 2A, and

EU2YX to be marked Y.

3 Abbreviations Representing Production Period

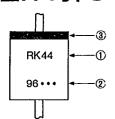
A: Year (Last Number of AD Year)

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

Production Period Divided in 3 ten day terms

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

BR Type TMD



Cathode Band

Color: Silver

①Type Designation:Mark in 2 sets

@Production Period:Mark in 4 sets

A: Year (Last Number of AD Year)

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

③Production Period Divided in 3 ten day terms

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

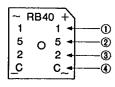
Yellow: For Middle Speed

Red : For High Speed and Ultra-High Speed

4 RB40/60

(RB40 Series)

(RB60 Series)



()Peak Reverse Voltage Designation

1, 2, 4, 6, C

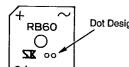
Production Period

②Year (Last Number of AD Year)

③Month (1~9, 0, N, D)

A: 1st 10days, B: 2nd 10days C: 3rd 10days

Color Designation: Silver

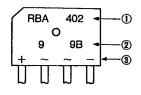


Dot Designation RB601 Violet RB602 No Color

RB604 Blue

RB606 White

BRBV/RBA



①Type Designation

②Lot Number

1st : Year (Last Number of AD Year)

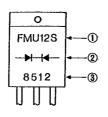
2nd: Month (1~9, 0, N, D) 3rd: Divided 1~3 ten day Terms

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

C: 3rd 10 days

3In-Put Designation

6T0220 Type (FM or CT Type)



①Type Designation Show FMU-12S as FMU12S. @Polarity:Rectifier Symbols

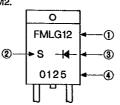
(3) Lot Number (Laser Marking)

: Year (Last Number of AD Year)

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

3rd, 4th: Day

ZTO220Type (FM or CT Type, single chip)



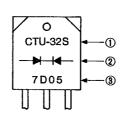
①Type Designation:Omit Last Letter Show FML-G12S as FMLG12. **②Last Letter of Type Designation** ③Polarity: Recitifier Symbols

: Year (Last Number of AD Year)

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

3rd, 4th: Day

BTO3P Type (FM or CT Type)



Type shown in full designation However, CTB-34/34S/34M are marked as CTB-34, CTU-G3DR is marked as CTUG3DR. @Polarity:Rectifier Symbols 3Lot Number:

1) M, U, G and L Types

First Number : Last Digit of AD Year Second Number : Month

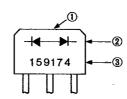
Third and Fourth Numbers: Day

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.

Marking Color: Silver

10/15 Type



①MI-10/15 is die-stamped on the top of the case.

@Rectifier Symbols

3Lot Number:

First Number (Letter)

:Peak Reverse Voltage: 0=50V, 1=100V, 2=200V.

4=400V, 6=600V, C=1000V

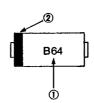
Second Number ; Last Digit of AD Year

Third Number :Month

Fourth and Fifth Numbers: Day Sixth Number :Production number and

U:Voltage Doubler Type

MSFPТуре



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

②Cathode Band