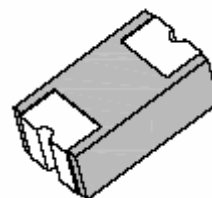


1.0A Sintered Glass Passivated Fast Recovery Rectifier

Features

- Leadless chip form, no lead damage
- Lead-free solder joint, no wire bond & lead frame
- Low profile package
- For surface mounted applications
- Built-in strain relief
- Low power loss, High efficiency
- High current capability
- High surge capacity
- Plastic package has UL Flammability Classification 94V-0
- RoHS Compliance



C1206



Mechanical Data

Case:	Packed with FRP substrate and epoxy underfilled
Terminals:	Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026
Polarity:	Cathode band, Laser marking
Mounting Position:	Any
Weight:	0.012 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Description	TCDR 1QW	TCDR 1VW	TCDR 1YW	TCDR 1ZW	TCDR 1MMW	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	1200	1400	1600	1800	2000	V	
V_{RMS}	Max. RMS Voltage	840	980	1120	1260	1400	V	
V_{DC}	Max. DC Blocking Voltage	1200	1400	1600	1800	2000	V	
I_{F(AV)}	Average Forward Rectified Current	1.0					A	See Fig.1
I_{FSM}	Peak Forward Surge Current	30					A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Max. Instantaneous Forward Voltage at 1.0A	1.80					V	

1.0A Sintered Glass Passivated Fast Recovery Rectifier

TCDR1QW - TCDR1MMW

Symbol	Description	TCDR 1QW	TCDR 1VW	TCDR 1YW	TCDR 1ZW	TCDR 1MMW	Unit	Conditions
IR	Max. DC Reverse Current at Rated DC Blocking Voltage	5					μA	TA=25°C
		30						TA=125°C
		50						TA=150°C
Trr	Max. Reverse Recovery Time	500					nS	IF=0.5A, IR=1.0A, Irr=0.25A
CJ	Typical Junction Capacitance	15					pF	VR=4V, f=1MHz
RthJA	Typical Thermal Resistance	95					° C/W	Note
RthJL		40						
TJ,TSTG	Operating Junction and Storage Temperature Range	-65 to +175					° C	

Note: Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

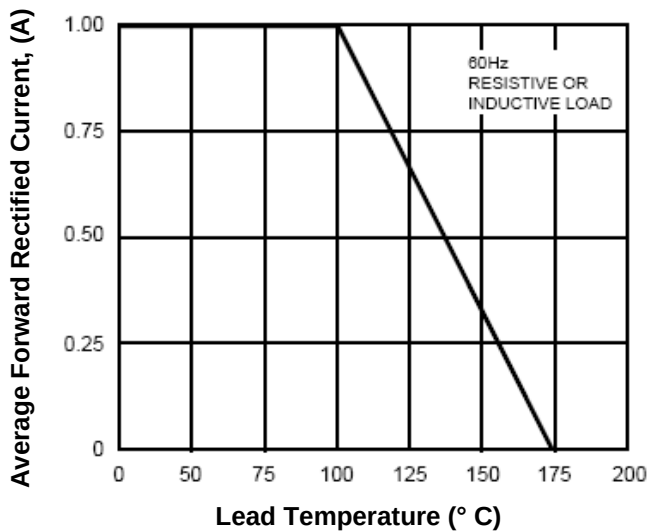
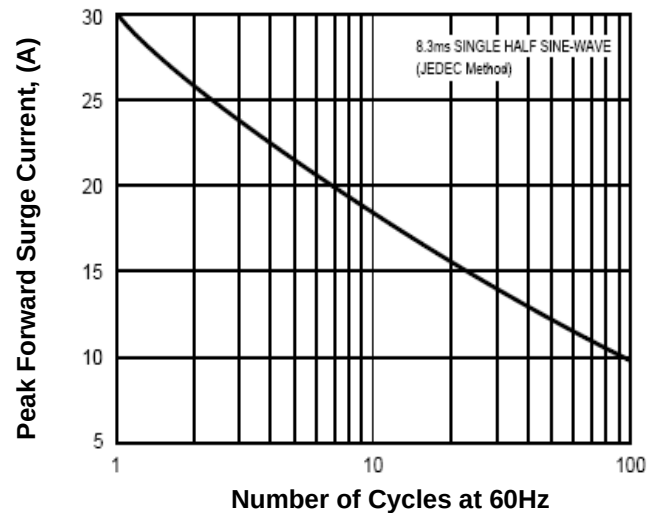


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current



1.0A Sintered Glass Passivated Fast Recovery Rectifier

TCDR1QW - TCDR1MMW

Fig.3- Typical Instantaneous Forward Characteristics

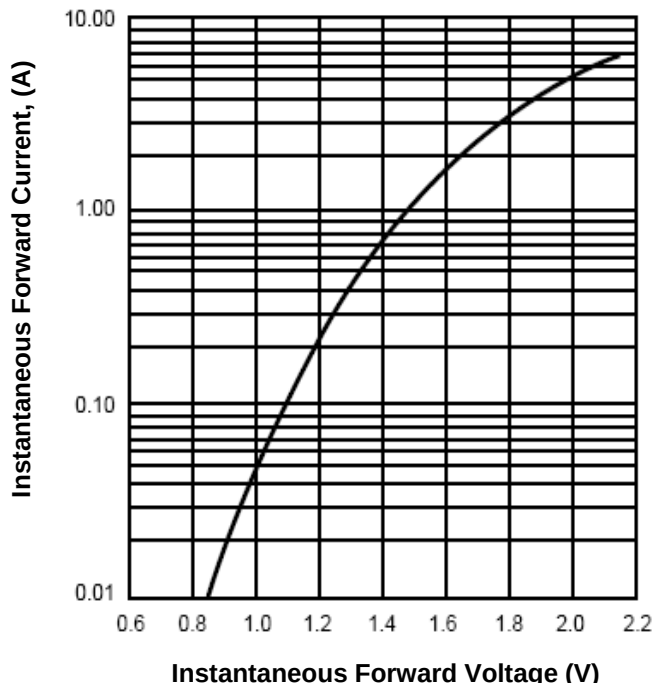


Fig.4-Typical Reverse Characteristics

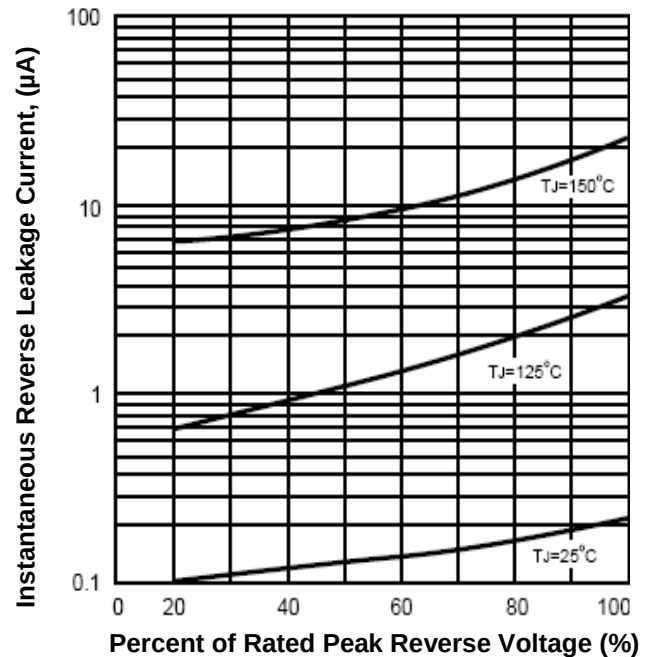
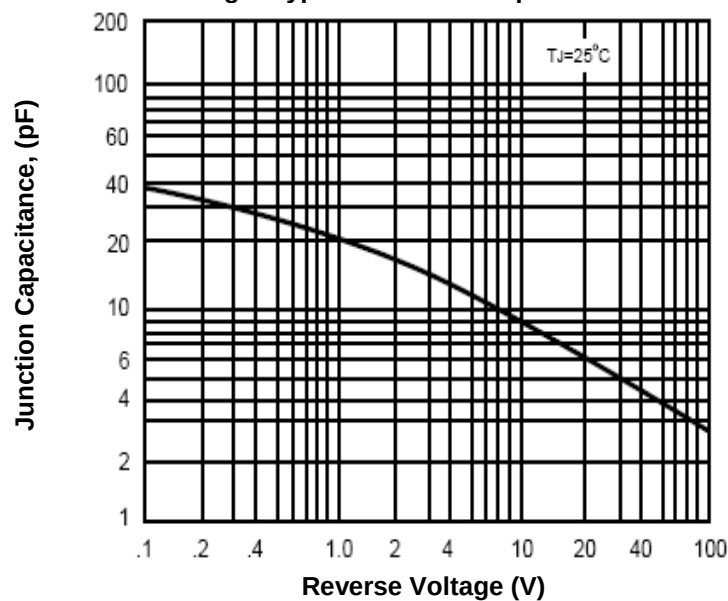


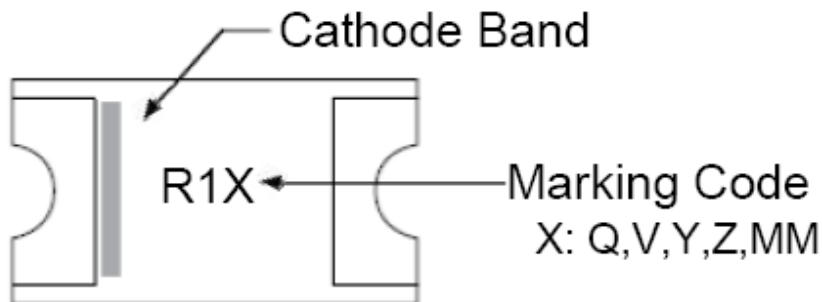
Fig.5-Typical Junction Capacitance



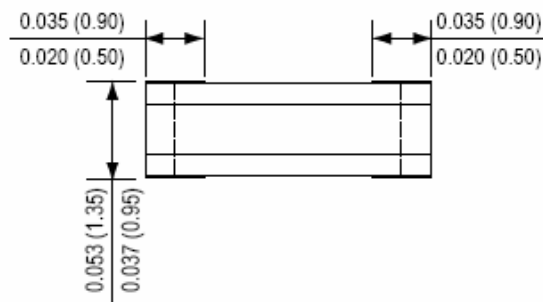
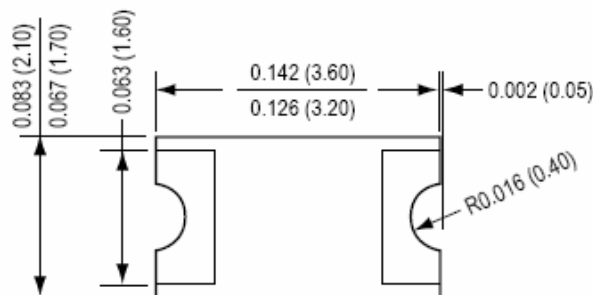
1.0A Sintered Glass Passivated Fast Recovery Rectifier

TCDR1QW - TCDR1MMW

Marking Information:



Dimensions in inches (mm)

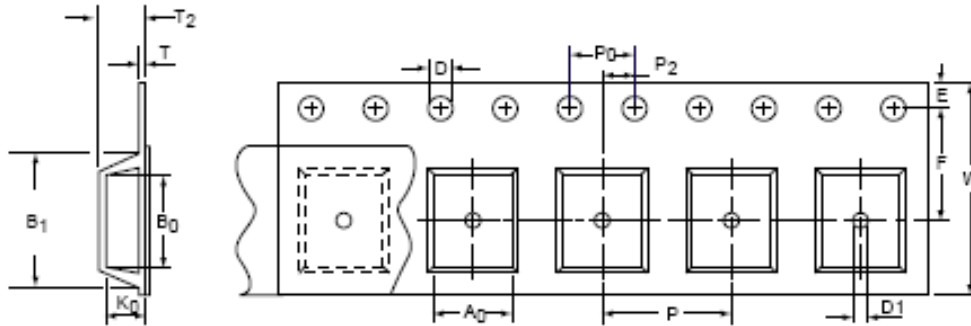


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1.0A Sintered Glass Passivated Fast Recovery Rectifier

TCDR1QW - TCDR1MMW

Packing Information in mm



Product Type	D	P ₀	P	W	E	A ₀	B ₀
	1.50±0.1	4.00±0.1	4.00±0.1	12.00±0.3	1.75±0.1	2.20±0.1	3.65±0.1
1206	B ₁	T	T ₂	D ₁	F	K ₀	P ₂
	8.20max.	0.40max.	1.75±0.1	1.50min.	5.50±0.05	1.28±0.1	2.0±0.1

Packing Quantity Information:

Quantity	PCS per Reel	PCS per Carton
-TR70 Tape & Reel	3000	90000

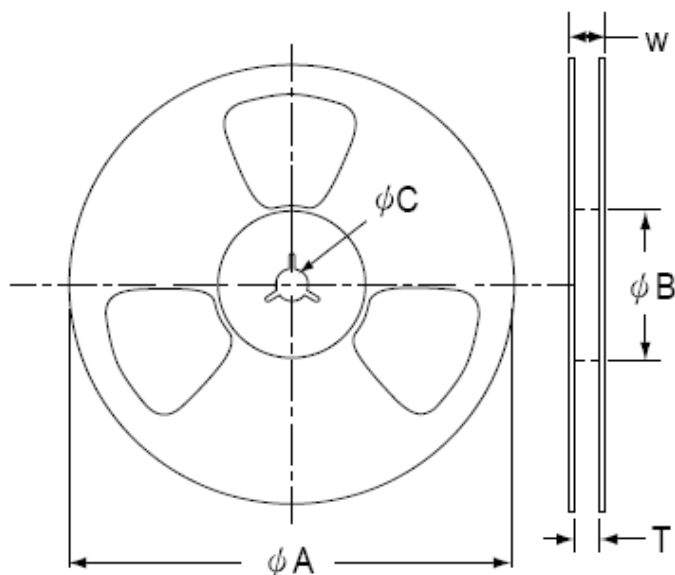
Carton Size Information:

-TR70 Tape & Reel
400X207X240 (in mm)

1.0A Sintered Glass Passivated Fast Recovery Rectifier

TCDR1QW - TCDR1MMW

Reel Dimensions in mm



ΦA	ΦB	ΦC	W	T
178 ± 2.0	50min.	13.0 ± 0.5	18.7max.	14.4max.

1.0A Sintered Glass Passivated Fast Recovery Rectifier

TCDR1QW - TCDR1MMW

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