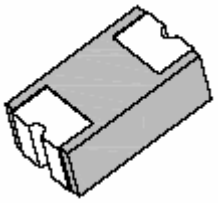
1.0A Sintered Glass Passivated Fast Recovery Rectifier

Features

- Low power loss, High efficiency
- For surface mounted applications
- High current capability
- High surge capacity
- Plastic package has UL Flammability Classification 94V-0
- RoHS Compliance

C1206



RoHS Compliant

Mechanical Data

Case:	Packed with FRP substrate and epoxy underfilled
Terminals:	Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026
Polarity:	Laser marking
Mounting Position:	Any
Weight:	0.02 gram

Maximum Ratings and Electrical Characteristics *(T_A=25ºC unless otherwise noted)*

Symbol	Description	TCDR 1DW	TCDR 1GW	TCDR 1JW	TCDR 1KW	TCDR 1MW	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	140	280	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	200	400	600	800	1000	V	
$I_{F(AV)}$	Average Forward Rectified Current	1.0					A	See Fig.1
I_{FSM}	Peak Forward Surge Current	30					A	
V_F	Max. Forward Voltage	1.3					V	
I_R	Reverse Current @ VR = VRRM	1					µA	T_A=25°C
		30					µA	T_A=125°C
		50					µA	T_A=150°C
T_{rr}	Max. Reverse Recovery Time	200			300		nS	I_F=0.5A, I_R =1.0A, Irr=0.25A.
R_{thJA} R_{thJL}	Thermal Resistance	95 40					°C / W	Junction to ambient

Symbol	Description	TCDR 1DW	TCDR 1GW	TCDR 1JW	TCDR 1KW	TCDR 1MW	Unit	Conditions
C_J	Diode Junction Capacitance	15					pF	f=1MHz V_R= 4V
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-65 to +175					° C	

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

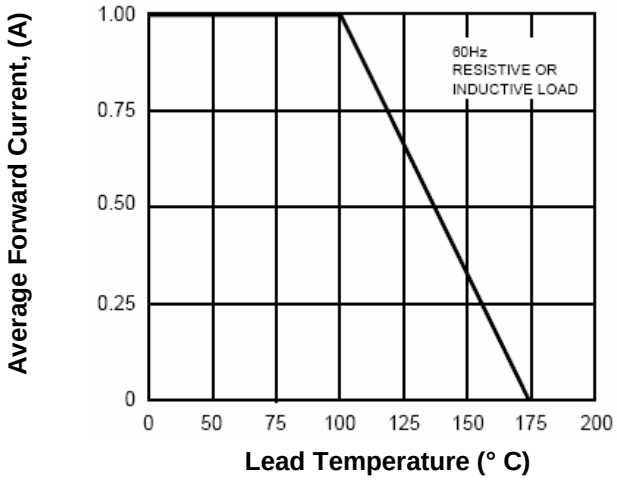


Fig.2- Maximum Non-Repetitive Forward Surge Current

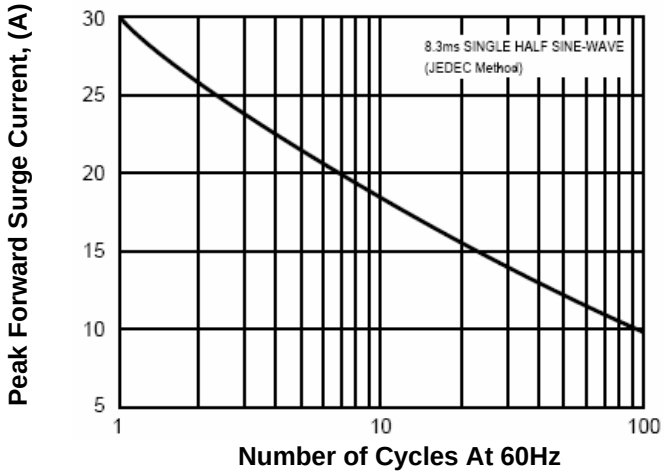


Fig.3- Typical Forward Characteristics

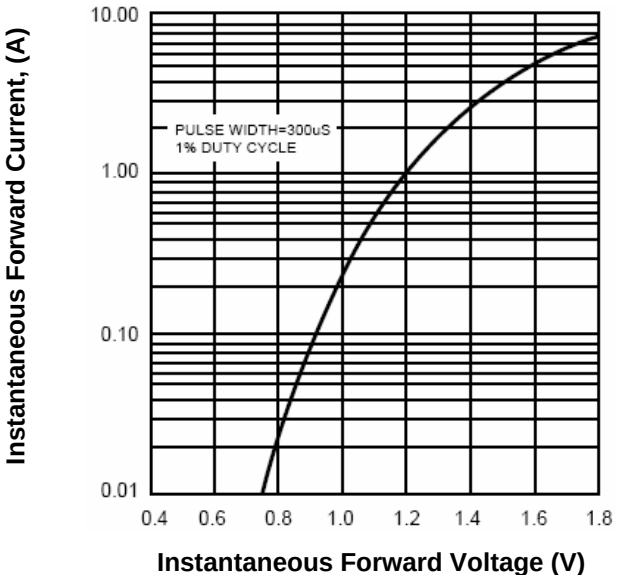


Fig.4-Typical Reverse Characteristics

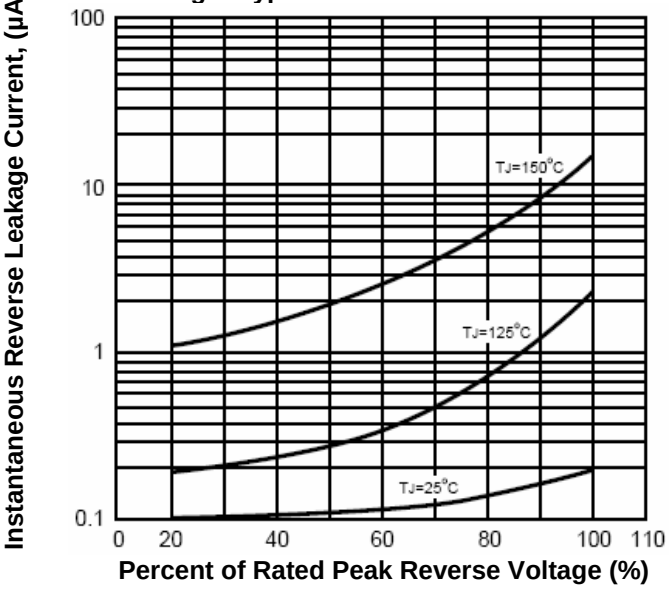
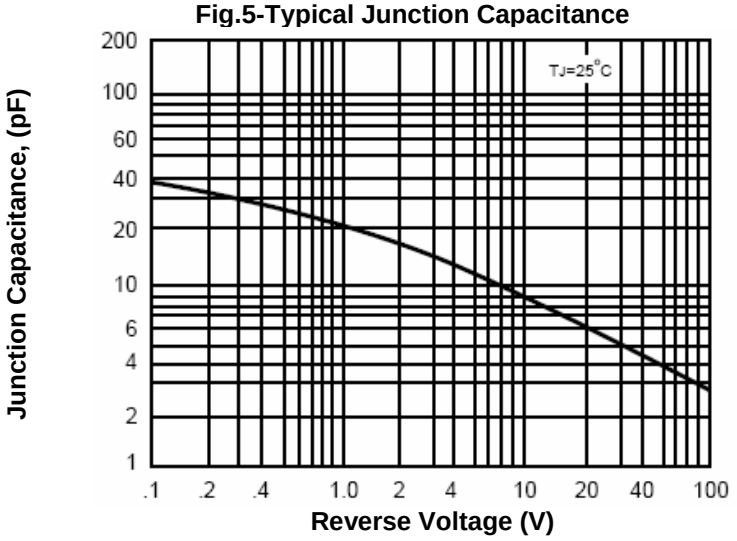
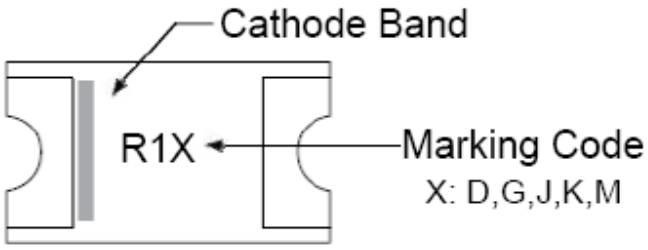


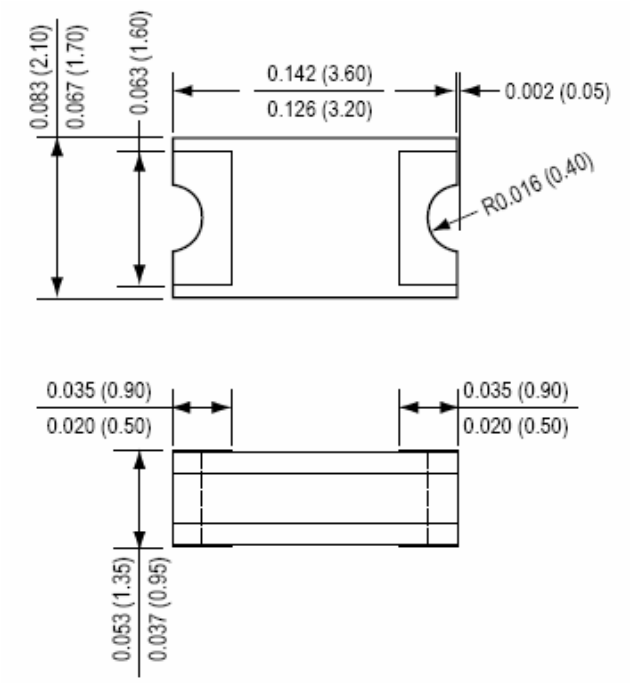
Fig.5-Typical Junction Capacitance



Marking Information:

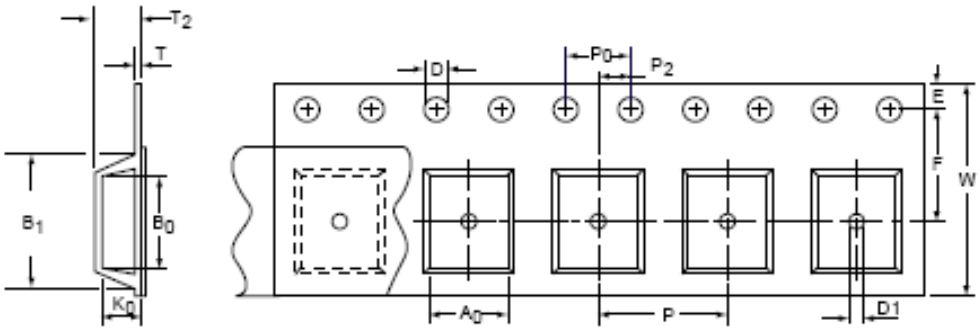


Dimensions in inches (mm)



C1206

Packing Information in mm



Product Type	D	P0	P	W	E	A0	B0
	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	B1	T	T2	D1	F	K0	P2
	8.20max.	0.40max.	1.75±0.1	1.50min.	5.50±0.05	1.28±0.1	2.0±0.1

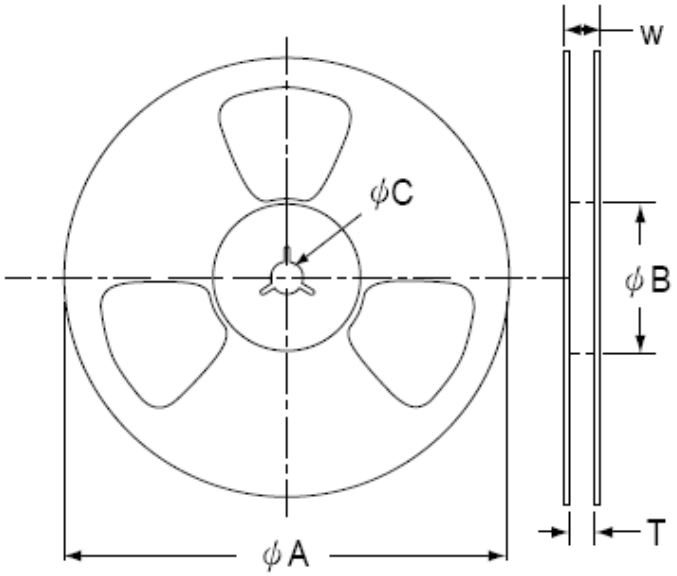
Packing Quantity Information:

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

Carton Size Information:

-TR70 Tape & Reel
400X207X240 (in mm)

Reel Dimensions in mm



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

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