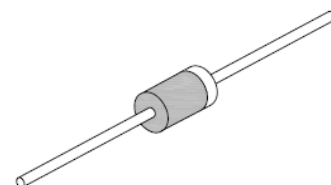


4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

Features

- GPRC (glass passivated rectifier chip) inside
- Designed for use in switching power supplies, inverters and as free wheeling diodes.
- 175 ° C operating junction temperature
- Low forward voltage, low leakage current
- High temperature glass passivated junction
- RoHS Compliance



DO-201AD



Mechanical Data

Case:	JEDEC DO-201AD molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Tin plated, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.04ounces, 1.12 grams

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

Symbol	Description	MUR440	MUR460	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	400	600	V	
VRMS	Maximum RMS Voltage	280	420	V	
VDC	Maximum DC Blocking Voltage	400	600	V	
I_{AV}	Maximum Average Forward Rectified Current	4.0		A	0.375" (9.5mm) lead length(Fig.1)
I_{FSM}	Peak Forward Surge Current	150		A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

MUR440 - MUR460

Symbol	Description	MUR440	MUR460	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.28		V	I _F =4.0 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10		μA	T _A =25° C
		250			T _A =150° C
T_{rr}	Typical Reverse Recovery Time	50		nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C_J	Typical Junction Capacitance	75		pf	V _R =4V, f=1MHz
R_{thJA}	Typical Thermal Resistance	75		°C / W	Note
T_J	Operating Temperature range	-65 to +175		°C	
T_{STG}	Storage Temperature Range	-65 to +175			

Note: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B mounted.

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

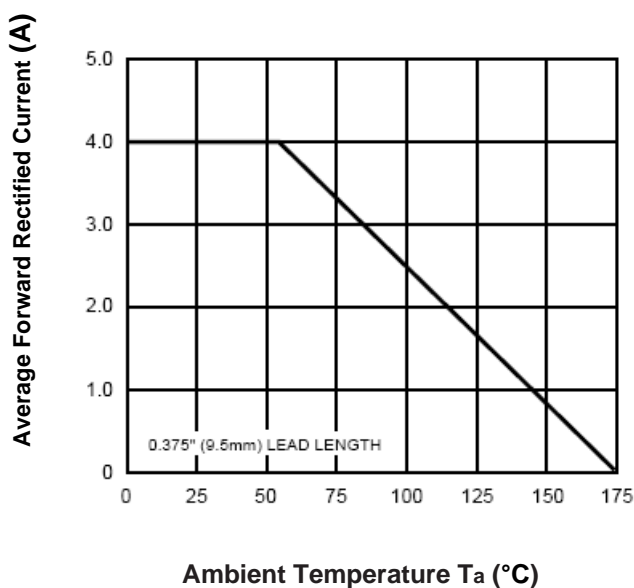
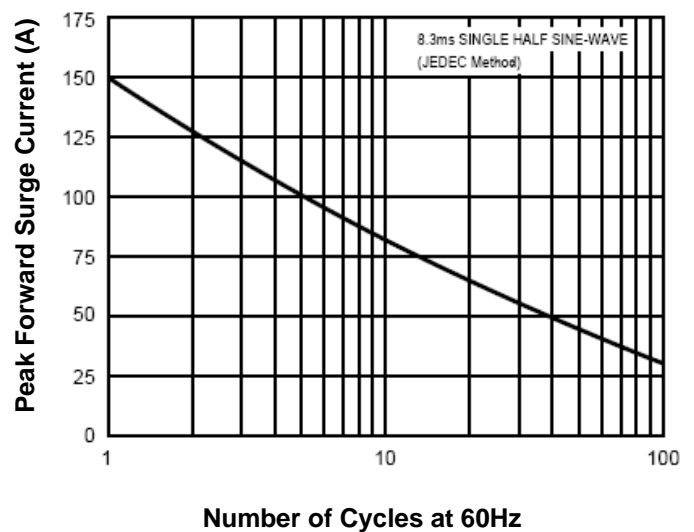


Fig.2-Max. Non-Repetitive Forward Surge Current



4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

MUR440 - MUR460

Fig.3- Typical Forward Characteristics

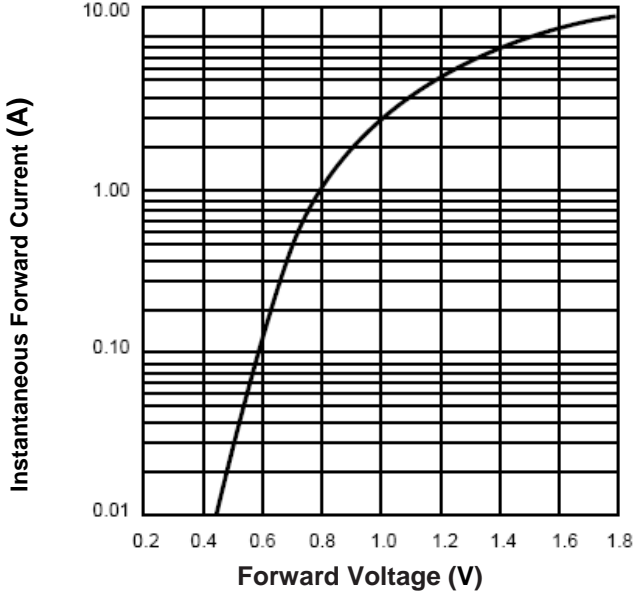


Fig.4-Typical Reverse Characteristics

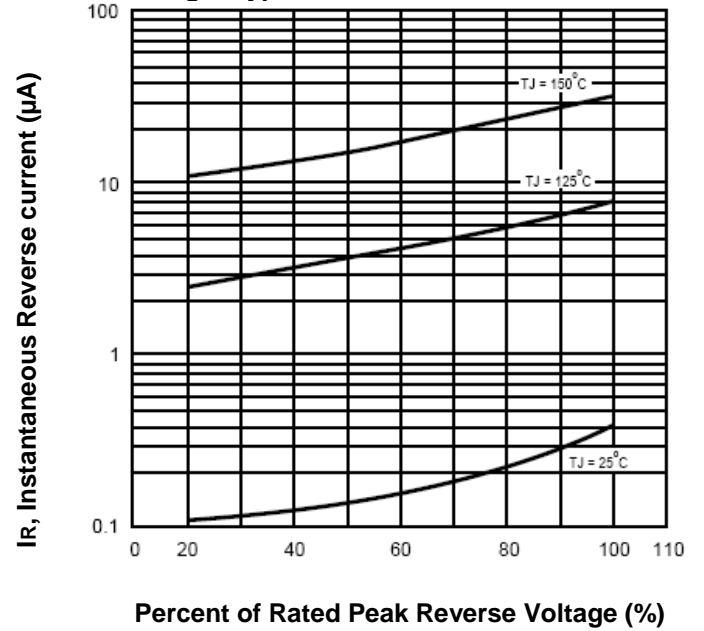
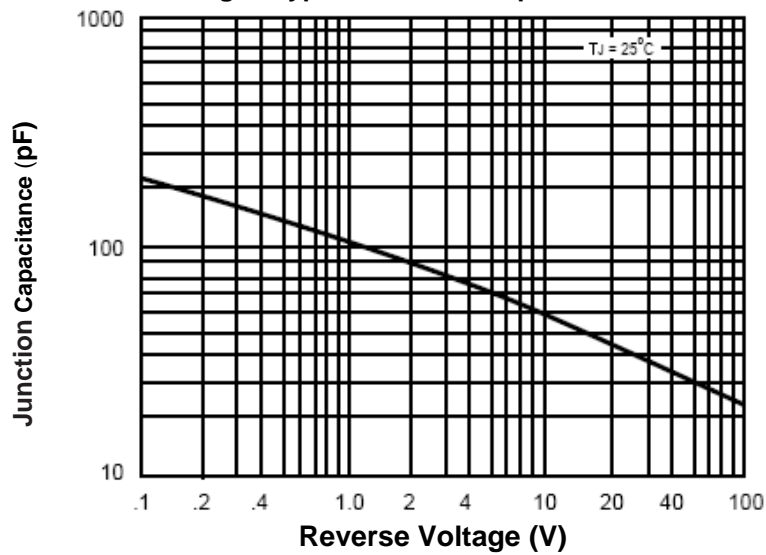


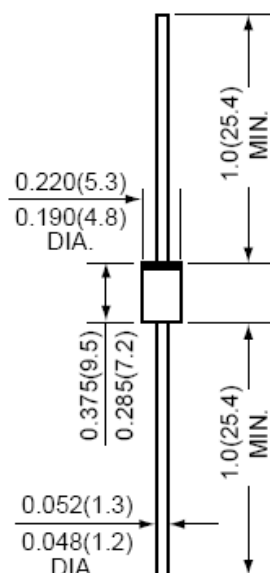
Fig.5- Typical Junction Capacitance



4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

MUR440 - MUR460

Dimensions in inches (mm)



DO-201AD

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