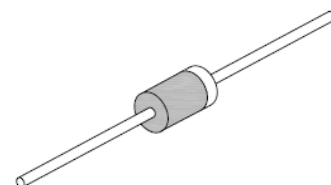


4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

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 ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	MUR440	MUR460	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	400	600	V	
V_{RMS}	Maximum RMS Voltage	280	420	V	
V_{DC}	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	$I_F=4.0\text{ A}$
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10		μA	$T_A=25^\circ\text{ C}$
		250			$T_A=150^\circ\text{ C}$
T_{rr}	Typical Reverse Recovery Time	50		nS	$I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$
C_J	Typical Junction Capacitance	75		pf	$V_R=4\text{V}$, $f=1\text{MHz}$
R_{thJA}	Typical Thermal Resistance	75		$^\circ\text{C} / \text{W}$	Note
T_J	Operating Temperature range	-65 to +175		$^\circ\text{C}$	
T_{STG}	Storage Temperature Range				

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

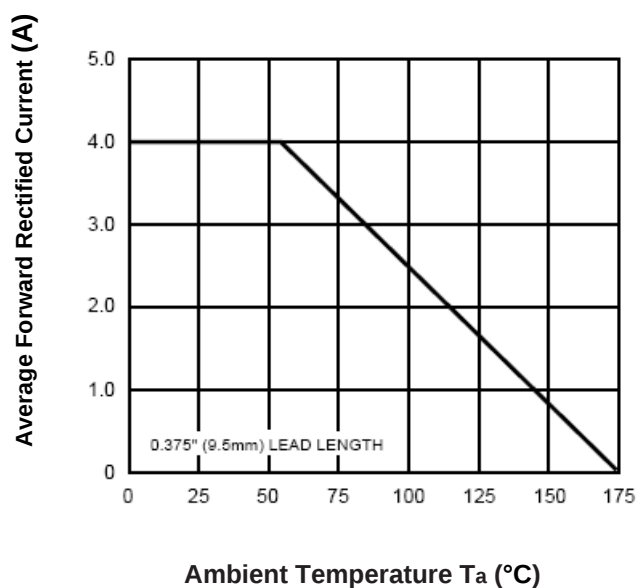
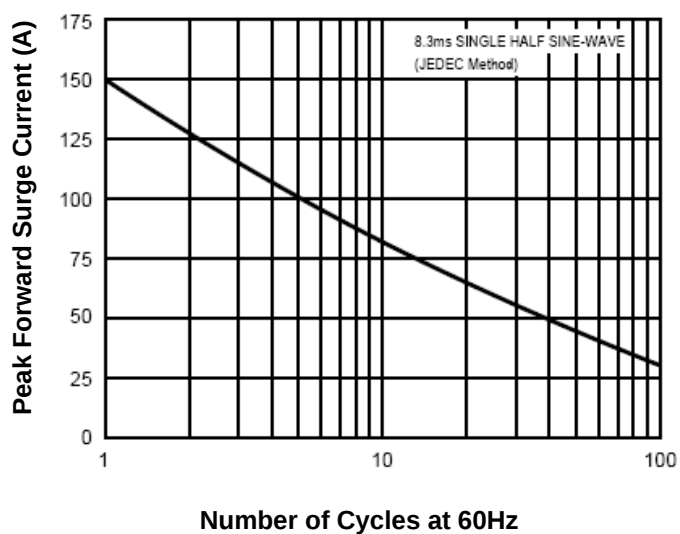


Fig.2-Max. Non-Repetitive Forward Surge Current



4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

MUR440 - MUR460

Fig.3- Typical Forward Characteristics

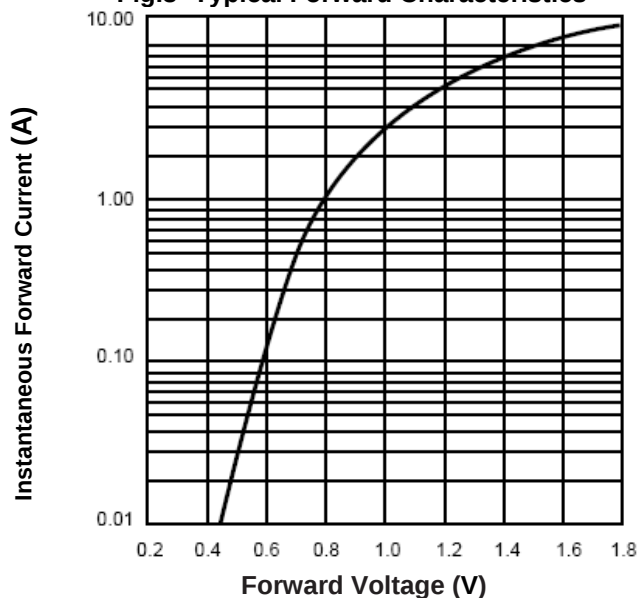


Fig.4-Typical Reverse Characteristics

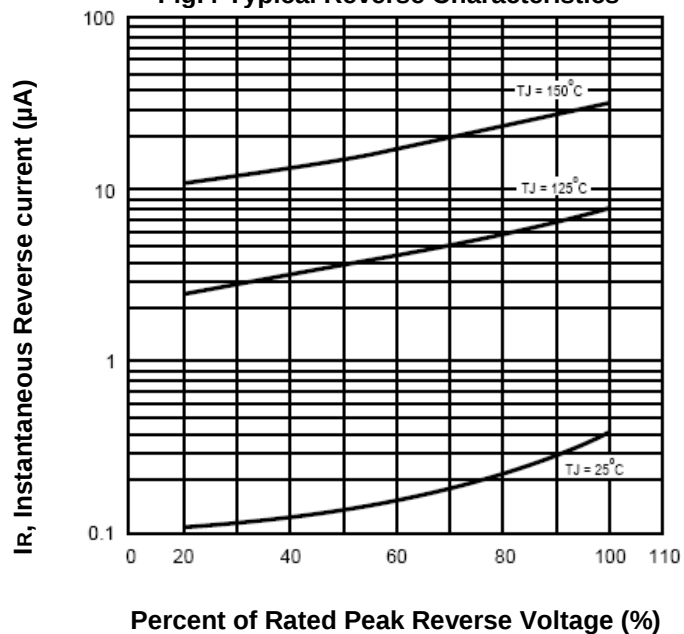
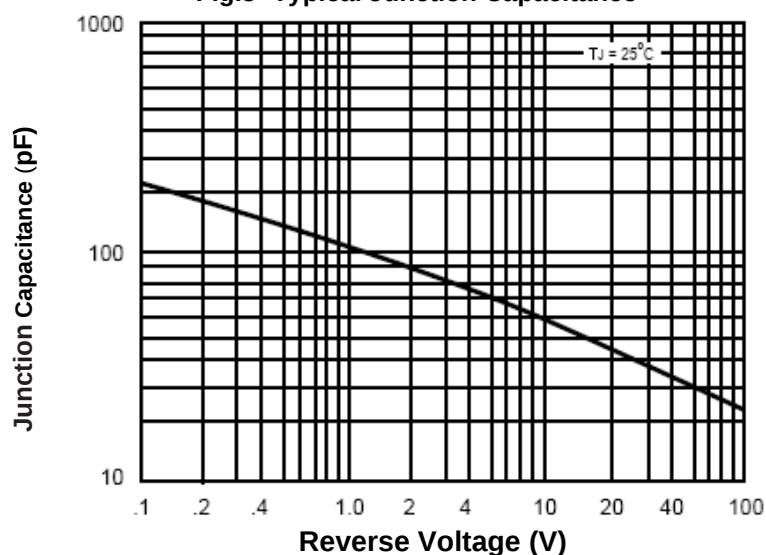


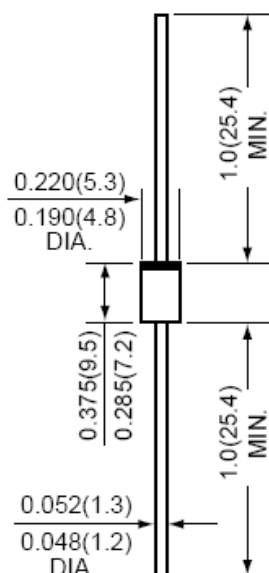
Fig.5- Typical Junction Capacitance



4.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

MUR440 - MUR460

Dimensions in inches (mm)



DO-201AD

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931