MUR105 THRU MUR160

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE:50 TO 600V CURRENT: 1.0A



FEATURE

Ultrafast Nanosecond Recovery Times 150°C Operating Junction Temperature Low Forward Voltage Low Leakage Current High Temperature Glass Passivated Junction

Mechanical Characteristics

Case: Epoxy, Molded

Weight: 0.4 gram (approximately)

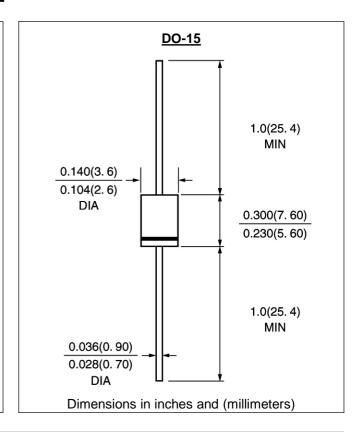
Finish: All External Surfaces Corrosion Resistant and Terminal

Leads are Readily Solderable

solder heat resistance :265degreeC Max. for 10 Seconds,

1/16 from case

Polarity: Cathode Indicated by Polarity Band



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	MUR 105	MUR 110	MUR 120	MUR 130	MUR 140	MUR 160	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0						А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	35						А
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	0.875 1.25					V	
Maximum DC Reverse Current Ta =25°C	Ir 10 50							μΑ
at rated DC blocking voltage Ta =125°C								μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	25			50			nS
Typical Junction Capacitance (Note 2)	Cj	25						pF
Typical Thermal Resistance (Note 3)	R(ja)	27				50		
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150						°C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

Rev.A6 www.gulfsemi.com

RATINGS AND CHARACTERISTIC MURVES MUR105 THRU MUR160

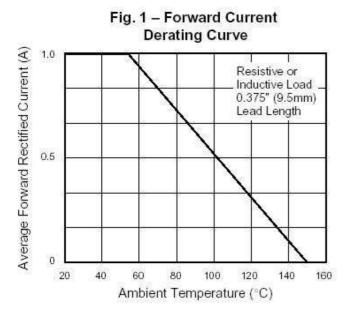


Fig. 3 – Typical Instantaneous Forward Characteristics

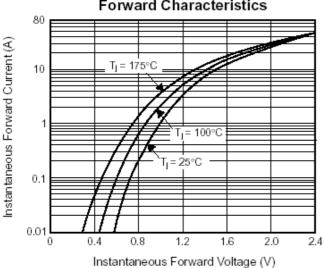


Fig. 5 - Typical Junction Capacitance

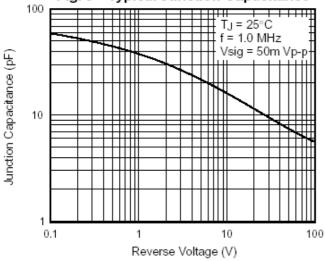


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

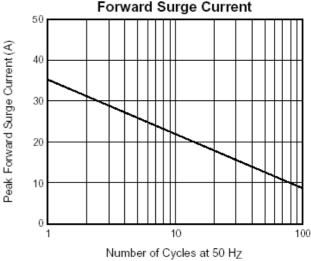
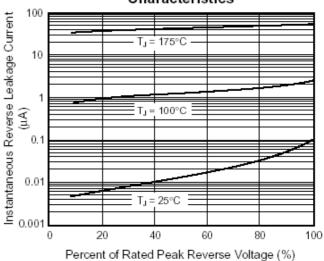


Fig. 4 – Typical Reverse Leakage Characteristics



¹ Rev.A6 www.gulfsemi.com