MUR280

GLASS PASSIVATED JUNCTION Ultra fast Plastic Rectifiers

VOLTAGE: 800V CURRENT: 2.0A



FEATURE

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultra fast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- High temperature soldering guaranteed: 250℃/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body over

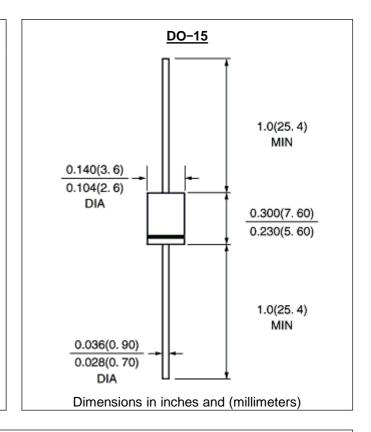
passivated chip

Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	MUR280	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	640	
Maximum DC blocking Voltage	Vdc	800	V
Maximum Average Forward Rectified	If(av)	2.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	35	Α
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.75	V
Maximum Reverse Recovery Time (Note 1)	Trr	75	nS
Typical thermal resistance junction to ambient (Note 2)	RθJA	50	€\M
Maximum DC Reverse Current Ta =25°C	lr	10	μΑ
at rated DC blocking voltage Ta =125°C		100	μΑ
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. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

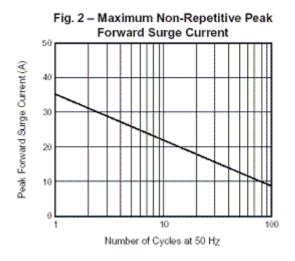
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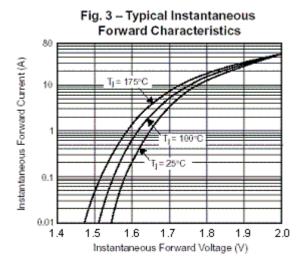
RATINGS AND CHARACTERISTIC CURVES MUR280

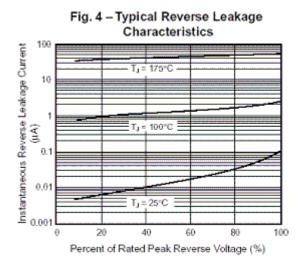
Fig. 1 – Forward Current
Derating Curve

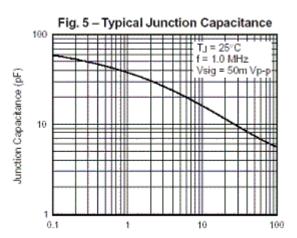
2
Resistive or Inductive Load 0.375" (9.5mm)
Lead Length

20
40
60
80
100
120
140
160
Ambient Temperature (°C)









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