

MUR160A - MUR190A

1.0 AMP. Glass Passivated High Efficient Rectifiers



DO-41

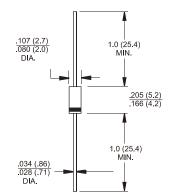


Features

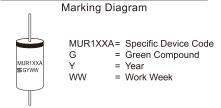
- Designed for use in switching power supplies, inverters and as free wheeling diodes
- ♦ High efficiency, low VF
- ♦ High reliability
- ♦ Ultrafast recovery time for high efficiency
- ♦ 175°C operating junction temperature
- Green compound with suffix "G" on packing code & marking
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260 °C /10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- ♦ Weight: 0.34 grams



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	MUR160A	MUR190A	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	600	900	V
Maximum RMS Voltage	VRMS	420	630	V
Maximum DC Blocking Voltage	VDC	600	900	V
Maximum Average Forward Rectified Current @ T _A =80 °C	I F(AV)	1.0		А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	İFSM	35		А
Maximum Instantaneous Forward Voltage @ 1.0A Tj=150°C Tj=25°C	VF	1.05 1.25	1.5 1.7	V
Maximum DC Reverse Current at @ T_A =25 $^{\circ}$ C Rated DC Blocking Voltage(Note 1) @ T_A =125 $^{\circ}$ C	lR	5.0 150		uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	50	75	nS
Typical Junction Capacitance (Note 4)	Cj	27	15	pF
Typical Thermal Resistance (Note 3)	Reja	50		°C/W
Operating Temperature Range	TJ	-65 to +175		°C
Storage Temperature Range	Tstg	-65 to +175		°C

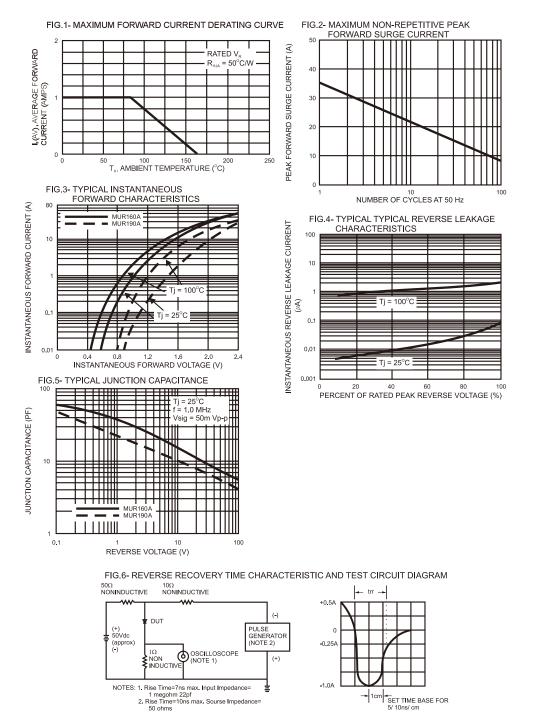
Notes: 1. Pulse Test: Pulse Width = 300uS, Duty Cycle ≤1.0%.

- 2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 3. Mounted on P.C. Board with 0.2" x 0.2" Copper Surface.
- 4. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

Version: B10



RATINGS AND CHARACTERISTIC CURVES (MUR160A THRU MUR190A)



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