

MUR120-44C

ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE:200V

CURRENT: 1.0A

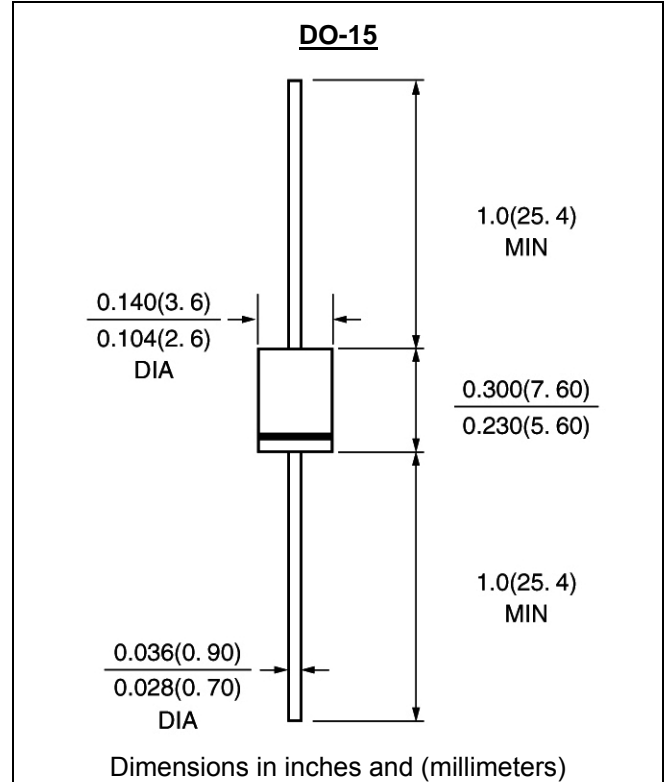


FEATURE

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	MUR120-44C	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	200	V
Maximum RMS Voltage	V _{rms}	140	V
Maximum DC blocking Voltage	V _{dc}	200	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55°C	I _{f(av)}	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	35	A
Maximum Forward Voltage at rated Forward Current and 25°C	V _f	0.875	V
Maximum DC Reverse Current Ta =25°C	I _r	2.0	μA
at rated DC blocking voltage Ta =125°C		50	μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	25	nS
Typical Junction Capacitance (Note 2)	C _j	25	pF
Typical Thermal Resistance (Note 3)	R _{th(ja)}	27	°C /W
Storage and Operating Temperature Range	T _{stg} , T _j	-55 to +150	°C

Note:

1. Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V_{dc}
3. Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

Fig. 1 – Forward Current Derating Curve

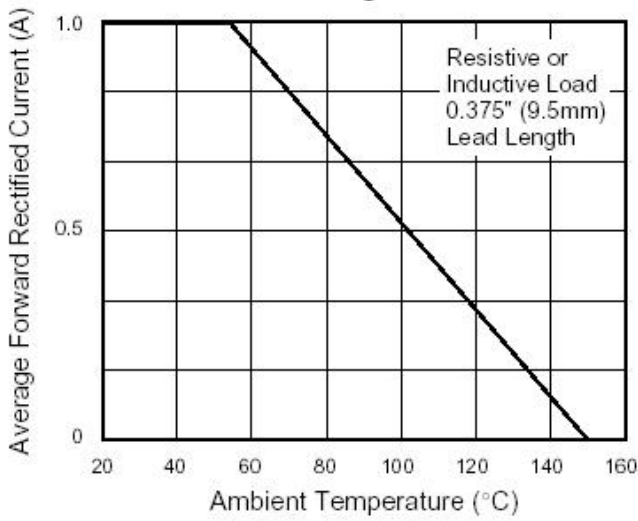


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

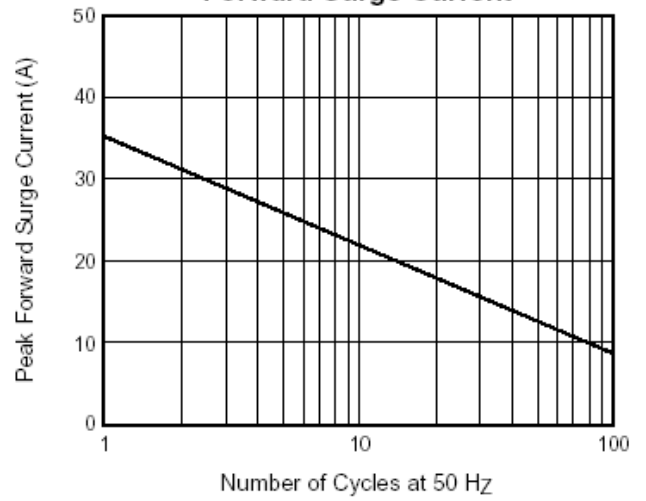


Fig. 3 – Typical Instantaneous Forward Characteristics

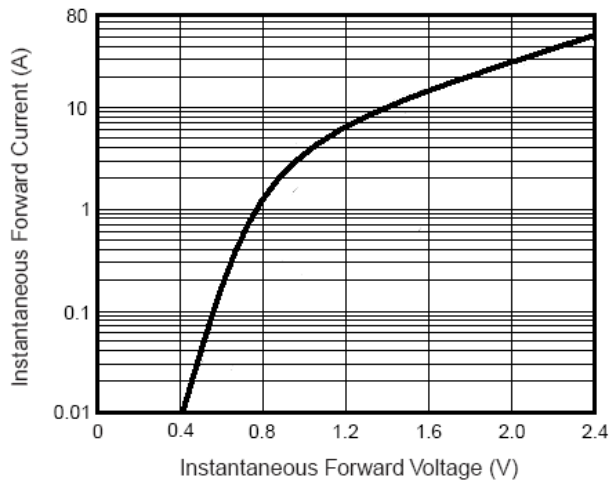


Fig. 4 – Typical Reverse Leakage Characteristics

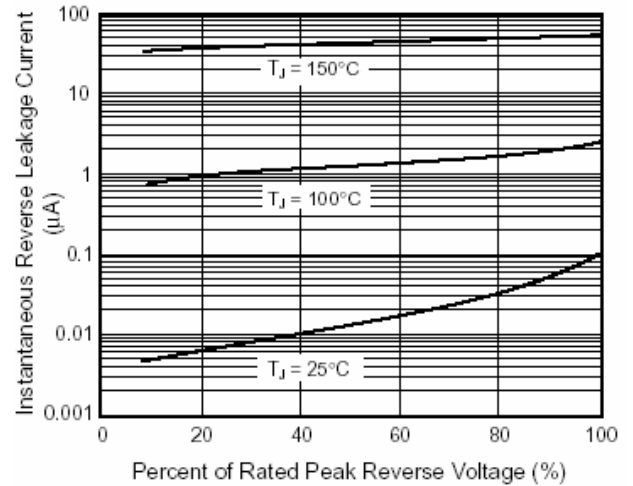


Fig. 5 – Typical Junction Capacitance

