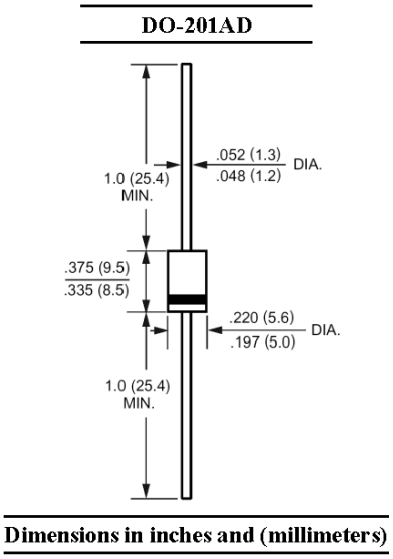
MUR460G

Fast Recovery Rectifiers

Reverse Voltage – 600 V
Forward Current – 4 A



Dimensions in inches and (millimeters)

Features

- Glass passivated die construction
- Super fast recovery time for high efficiency
- Low forward voltage drop and high current capability

Mechanical Data

- Case: Molded plastic, DO-201AD
- Terminals: Solder plater terminal, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Cathode Band
- Mounting position: Any

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	MUR460G	Units
	Marking	MUR460G	-
Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	424	V
Average Rectified Output Current at T_T = 40℃	$I_{F(AV)}$	4	A
Peak Forward Surge Current, 8.3 ms Single Half-sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	70	A
Forward Voltage at I_F = 3 A, T_j = 150℃ at I_F = 3 A, T_j = 25℃ at I_F = 4 A, T_j = 25℃	V_F	 1.05 1.25 1.28	V
Reverse Current at Rated DC Blocking Voltage T_a = 25°C T_a = 150°C	I_R	10 250	μA
Reverse Recovery Time [1]	t_{rr}	50	ns
Junction Capacitance [2]	C_J	75	pF
Thermal Resistance [3]	$R_{\theta JA}$	52	K/W
Operating Junction and Storage Temperature Range	T_J, T_{Stg}	-65 to +175	℃

[1] Measured with I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.

[2] Measured at 1.0 MHz and applied reverse voltage of 4 V DC.

[3] Mounted to PCB, lead length = 9.5 mm.

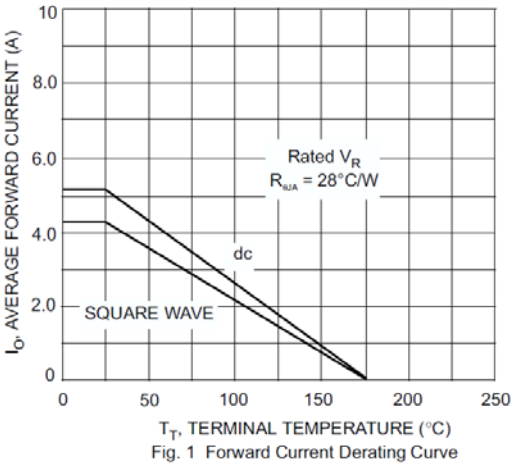


Fig. 1 Forward Current Derating Curve

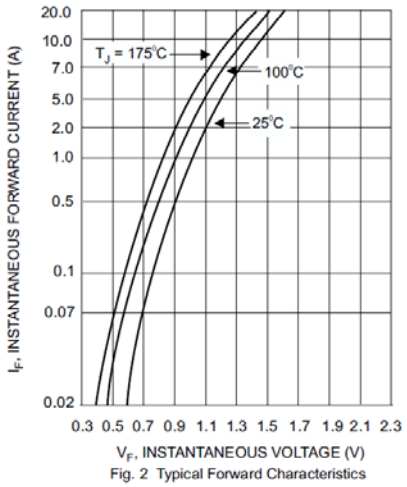


Fig. 2 Typical Forward Characteristics

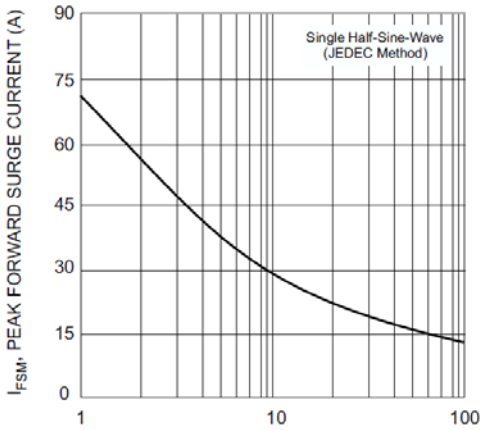


Fig. 3 Surge Current Derating Curve

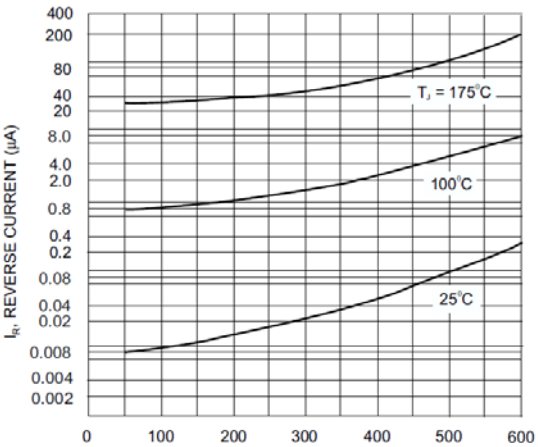


Fig. 4 Typical Reverse Characteristics