

MUR460G

Fast Recovery Rectifiers

Reverse Voltage – 600 V

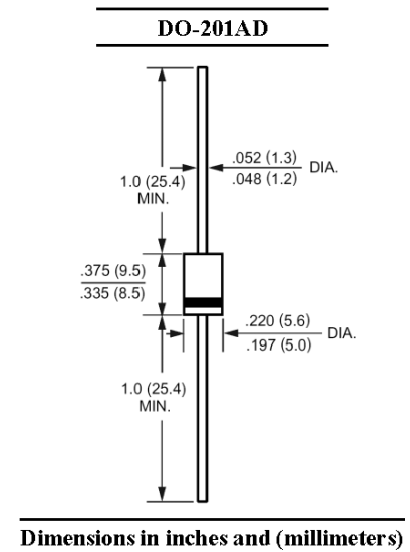
Forward Current – 4 A

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°C 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 $T_T = 40^\circ\text{C}$	$I_{F(AV)}$	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 $I_F = 3\text{ A}$, $T_J = 150^\circ\text{C}$ at $I_F = 3\text{ A}$, $T_J = 25^\circ\text{C}$ at $I_F = 4\text{ A}$, $T_J = 25^\circ\text{C}$	V_F	1.05 1.25 1.28	V
Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 150^\circ\text{C}$	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	$^\circ\text{C}$

¹⁾ Measured with $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$.

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

³⁾ Mounted to PCB, lead length = 9.5 mm.

