

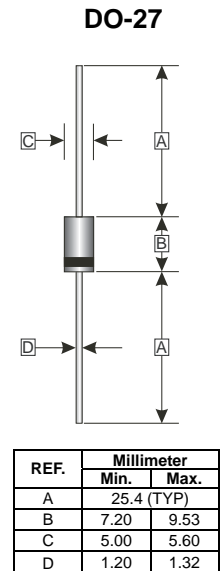
RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High speed switching

PACKAGING INFORMATION

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.1050 grams (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

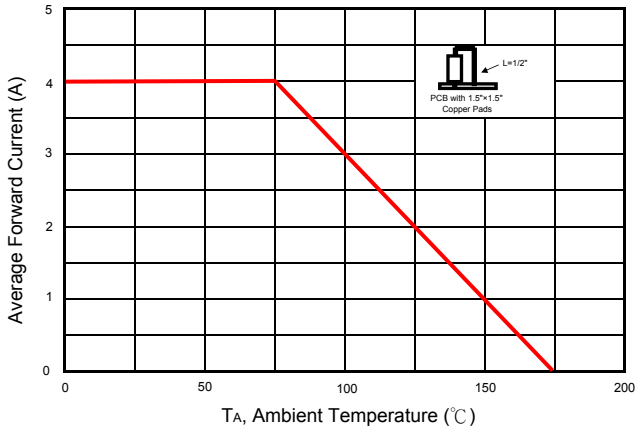
TYPE NUMBER	SYMBOL	MUR460	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	4	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage (Note3)	V_F	$I_F = 4\text{ A}, T_A = 25^\circ\text{C}$ 1.28	V
		$I_F = 4\text{ A}, T_A = 125^\circ\text{C}$ 1	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note3)	I_R	$T_A = 25^\circ\text{C}$ 5	μA
		$T_A = 100^\circ\text{C}$ 250	
Typical Junction Capacitance (Note 1)	C_J	40	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	28	$^\circ\text{C}/\text{W}$
Maximum Reverse Recovery Time @ $I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25\text{A}$	t_{rr}	50	nS
Operating Temperature Range T_J	T_J	-50 ~ +175	$^\circ\text{C}$
Storage Temperature Range T_{STG}	T_{STG}	-65 ~ +175	$^\circ\text{C}$

NOTES:

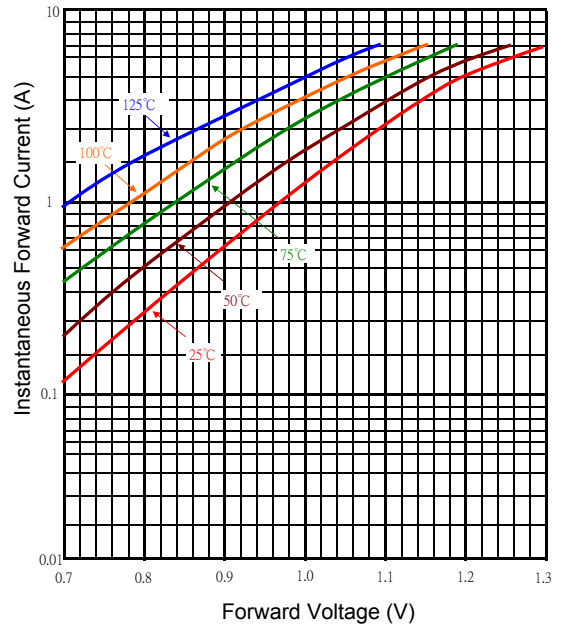
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Ambient. Lead length = 1/2" on P.C. board with 1.5" x1.5" copper surface
3. Pulse Test: Pulse Width =300uS, Duty Cycle ≤2%

RATINGS AND CHARACTERISTIC CURVES

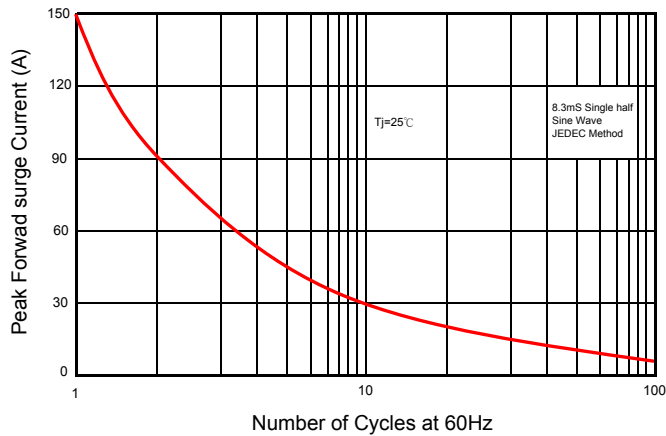
Typical Forward Current Derating



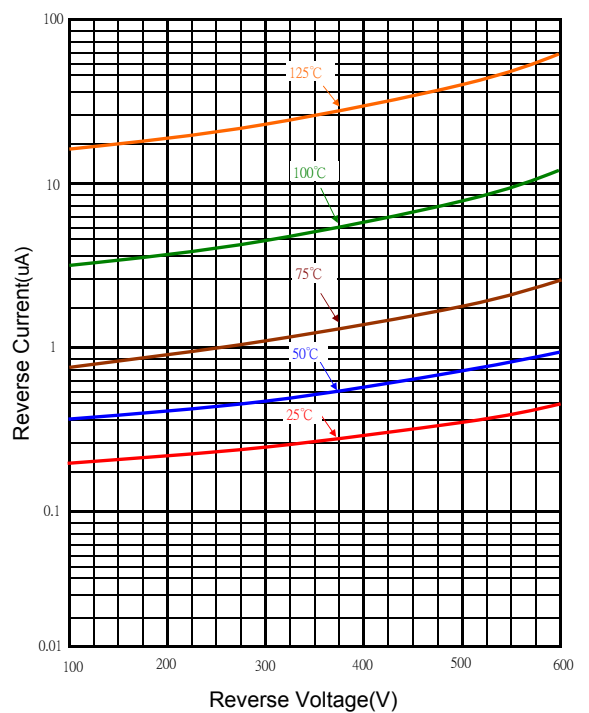
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

