

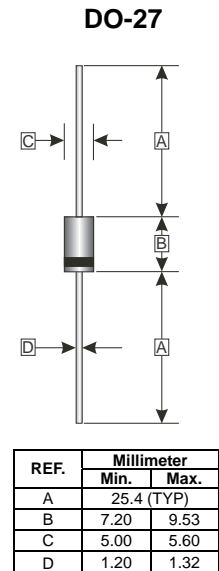
RoHS Compliant Product  
 A suffix of "-C" specifies halogen & lead-free

### 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%.

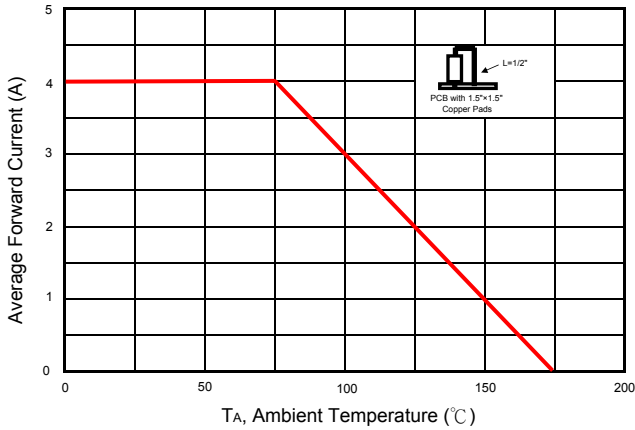
TYPE NUMBER	SYMBOL	MUR460	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	V
Working Peak Reverse Voltage	$V_{RWM}$	600	V
Maximum DC Blocking Voltage	$V_{DC}$	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	4	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed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

**NOTES:**

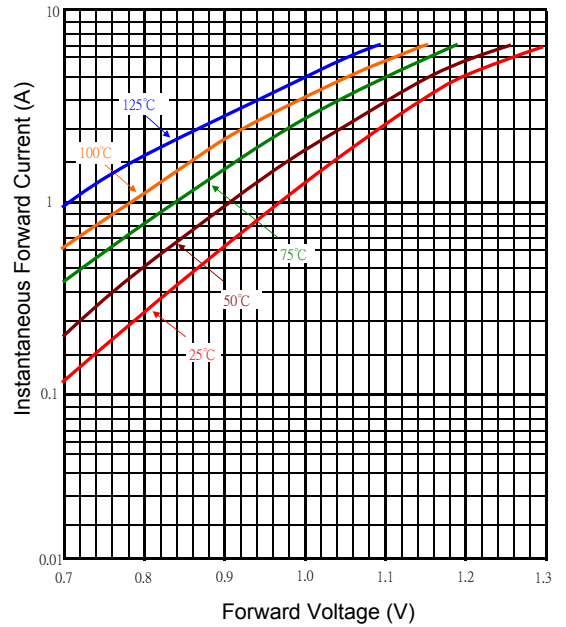
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Ambient. Lead length = 1/2" on P.C. board with 1.5" x1.5" copper surface
3. Pulse Test: Pulse Width =300uS, Duty Cycle ≤2%

**RATINGS AND CHARACTERISTIC CURVES**

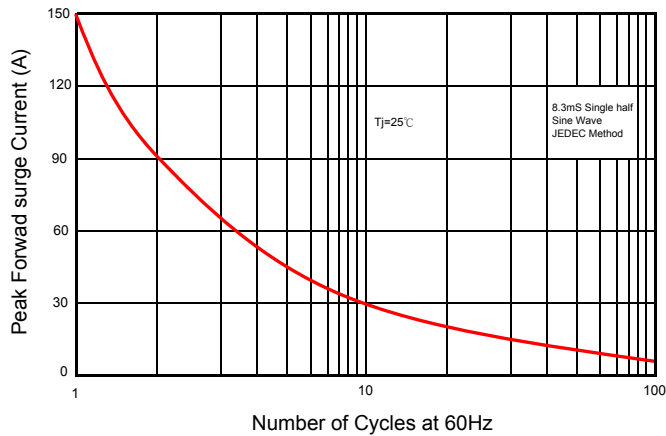
Typical Forward Current Derating



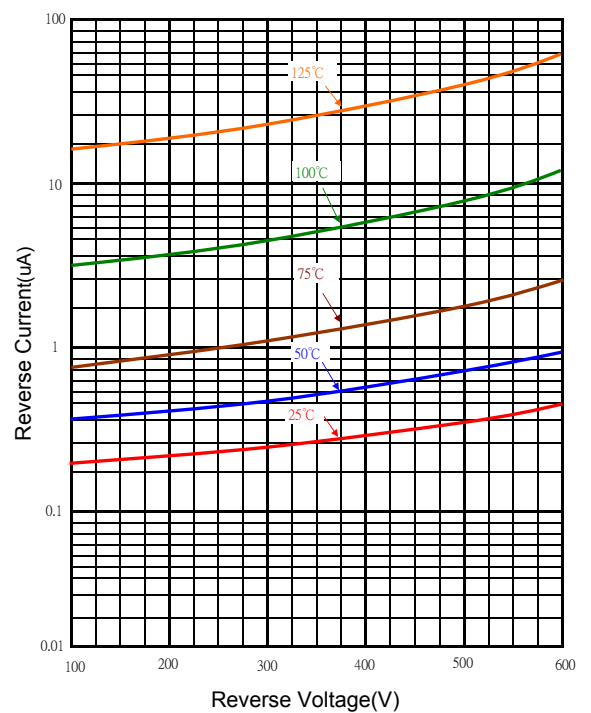
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

