



**SUPER FAST DIODE MODULE TYPES 400A**

**Features**

High Surge Capability  
Types Up to 200V  $V_{RRM}$

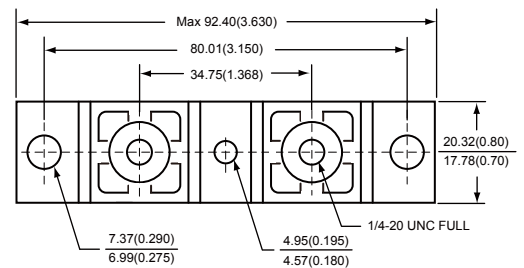


**Maximum Ratings**

Operating Temperature : -55 °C to +175 °C  
Storage Temperature : -55 °C to +175 °C

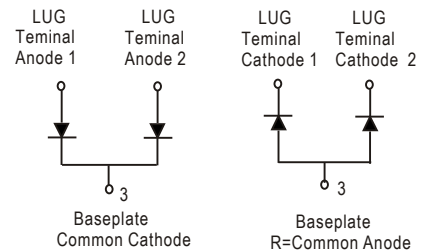
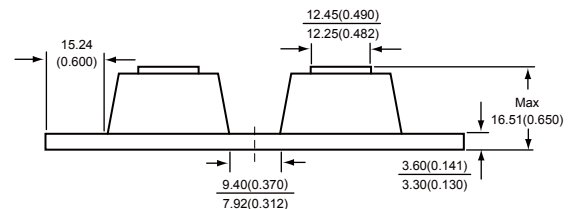
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR40005CT(R)	50V	35V	50V
MUR40010CT(R)	100V	70V	100V
MUR40020CT(R)	200V	140V	200V

Dimensions in mm (1 mm = 0.0394")



**Electrical Characteristics @ 25 °C Unless Otherwise Specified**

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	$T_C = 125^\circ C$
Peak Forward Surge Current	$I_{FSM}$	3300A	8.3ms , half sine
Maximum Instantaneous Forward Voltage *	$V_F$	1.0V	$I_{FM} = 200A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	$I_R$	25 $\mu A$ 3 mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time	$T_{rr}$	150 ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.35°C/W	



\*Pulse Test : Pulse Width 300  $\mu$  sec, Duty Cycle 2%



Figure .1- Typical Forward Characteristics

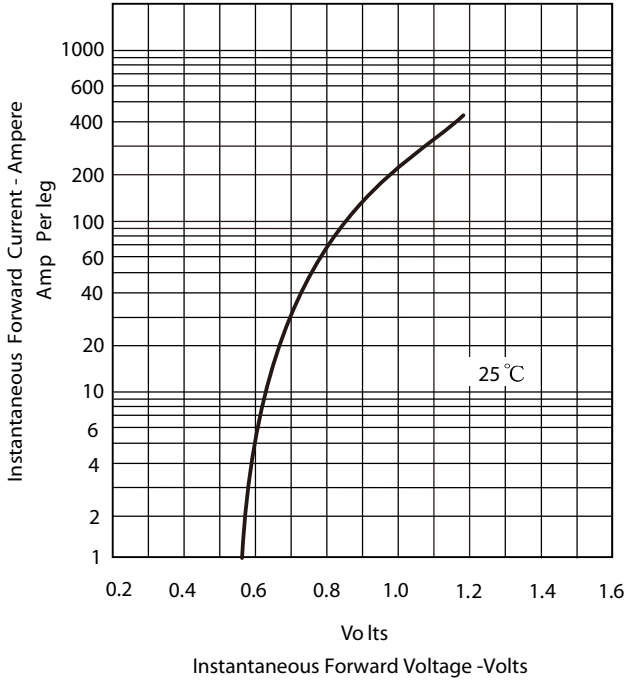


Figure .2- Forward Derating Curve

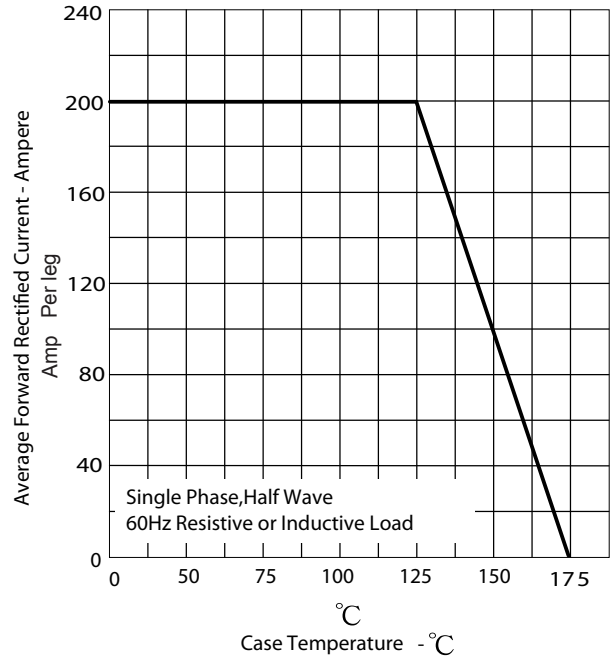


Figure.3- Peak Forward Surge Current

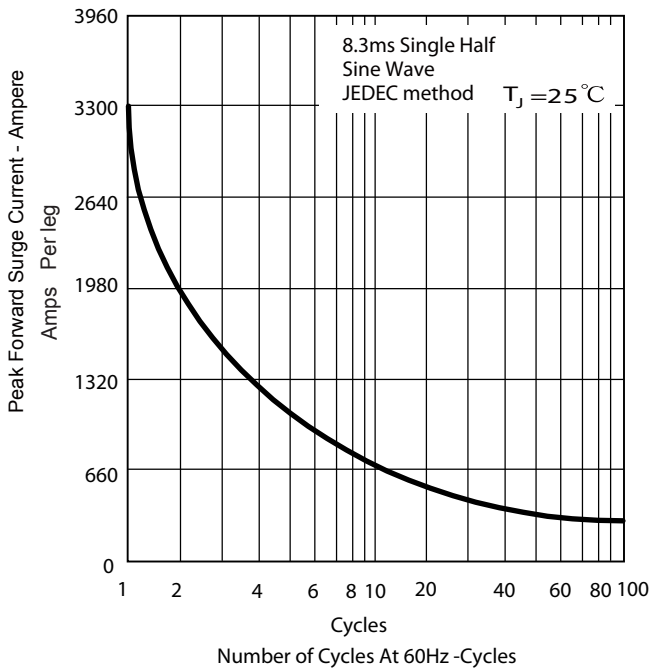


Figure .4 -Typical Reverse Characteristics

