



SUPER FAST DIODE MODULE TYPE 300A

Features

- High Surge Capability
- Type 1200V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

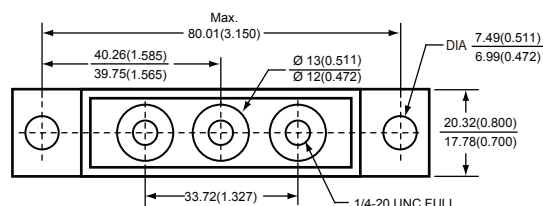


Maximum Ratings

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

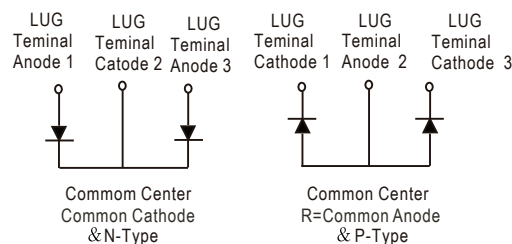
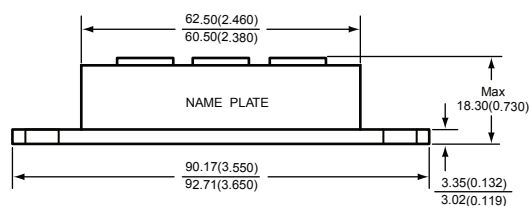
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURT300120(R)	1200V	840V	1200V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	300A	$T_C = 140^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	2600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	V_F	2.40V	$I_{FM} = 150A; T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage*	I_R	25 μA 2mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time (Per leg)	T_{rr}	150ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Isolation Voltage	V_{isol}	2500V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.40°C/W	



*Pulse Test: Pulse Width 300 μsec , Duty Cycle 2%



Figure .1- Typical Forward Characteristics

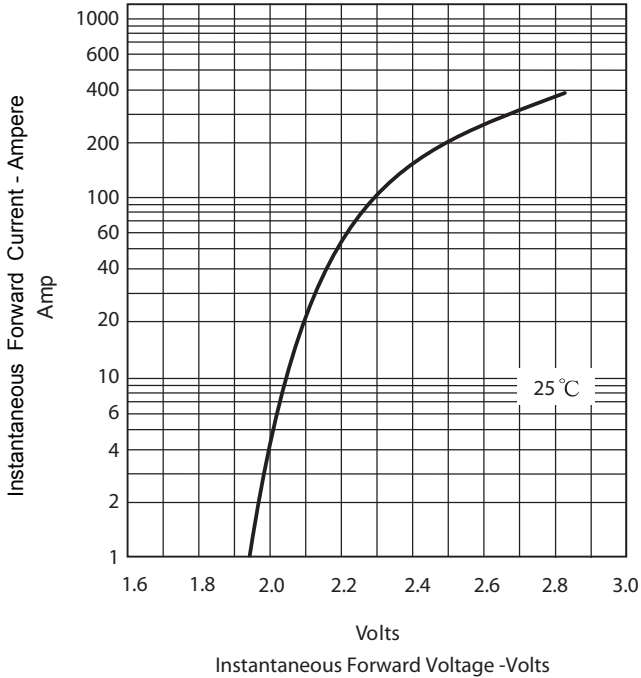


Figure .2- Forward Derating Curve

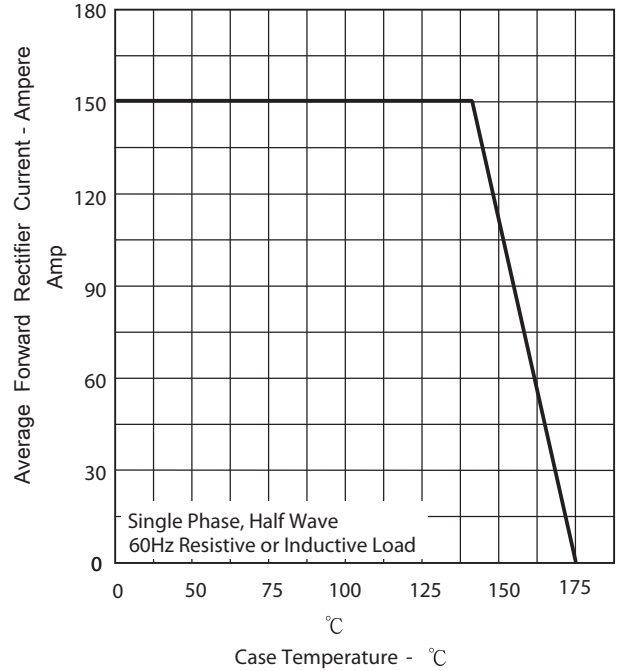


Figure .3- Peak Forward Surge Current

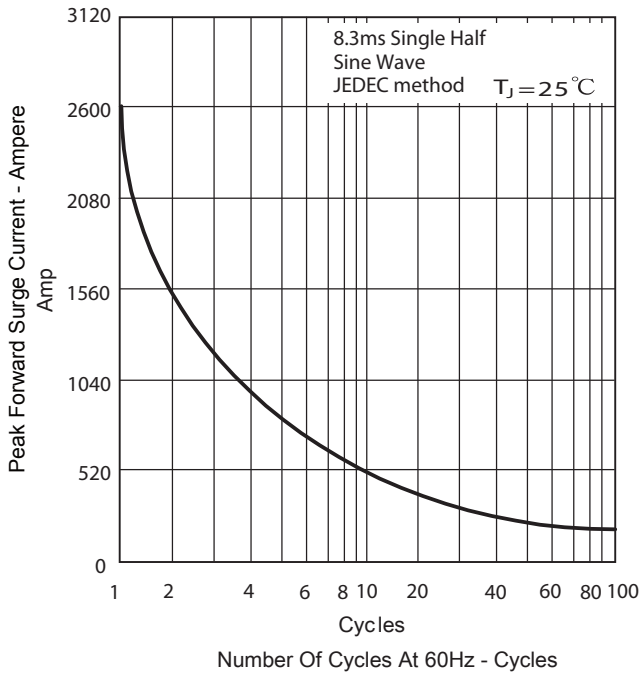


Figure .4 -Typical Reverse Characteristics

