DACO SEMICONDUCTOR CO., LTD.

MURT300120(R)

SUPER FAST DIODE MODULE TYPE 300A

Features

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

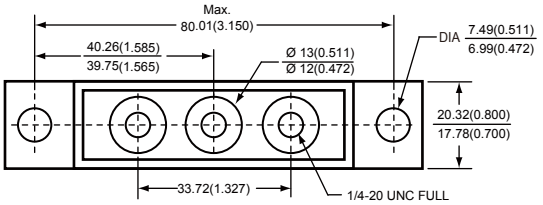
THREE TOWER

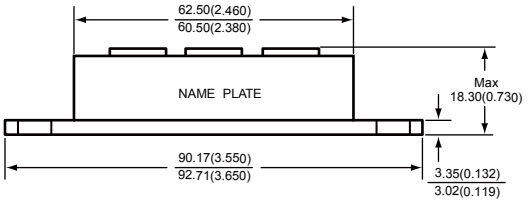
Maximum Ratings

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°C
Peak Forward Surge Current (Per leg)	I_{FSM}	2600A	8.3ms,half sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	2.40V	I_{FM}=150A;T_J = 25°C
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per leg)	I_R	25μA 2mA	T_J =25°C T_J =125°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 300μsec, Duty Cycle 2%

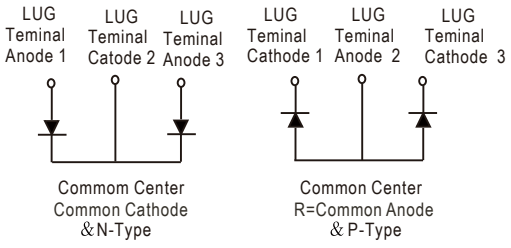


Figure .1- Typical Forward Characteristics

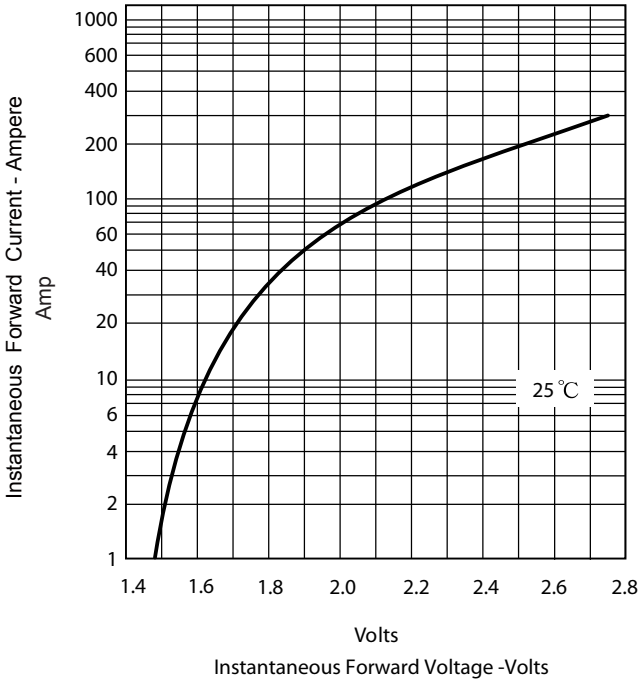


Figure .2- Forward Derating Curve

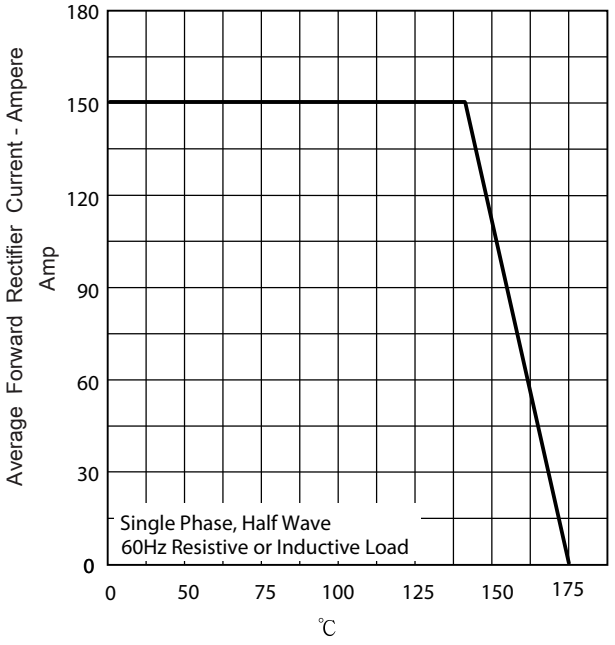


Figure .3- Peak Forward Surge Current

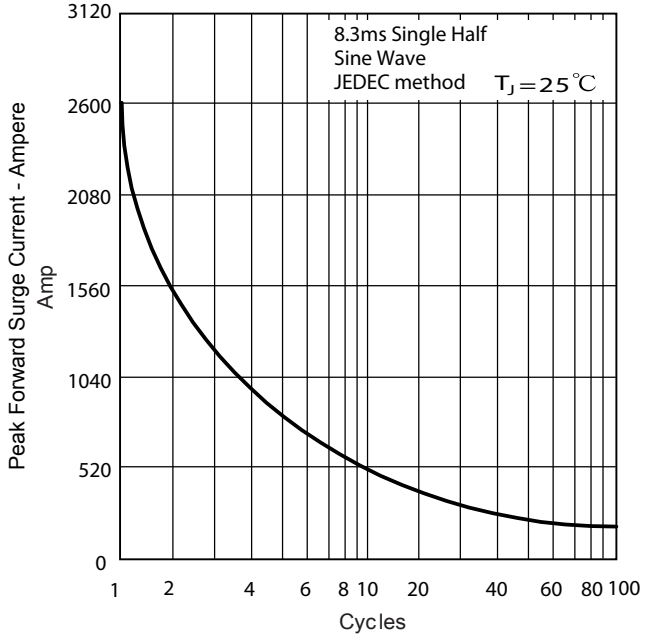


Figure .4 -Typical Reverse Characteristics