

SUPER FAST DIODE MODULE TYPE 300A

Features

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

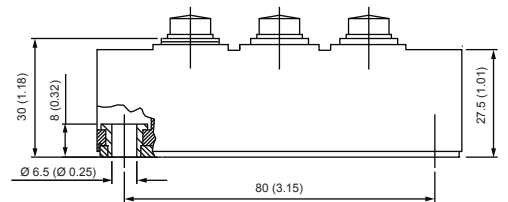


Maximum Ratings

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

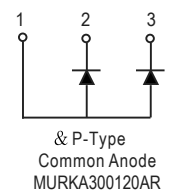
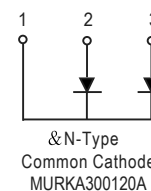
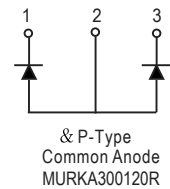
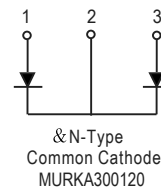
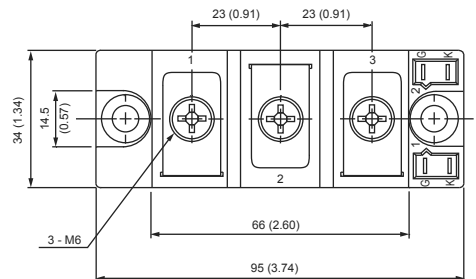
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURKA300120(A)(R)	1200V	840V	1200V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	300A	$T_C = 100^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	3500A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	2.35V	$I_{FM} = 150A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per leg)	I_R	25 μA 6 mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time (Per leg)	T_{rr}	180ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Isolation Voltage	V_{isol}	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.14°C/W 0.28°C/W	Per pkg Per leg



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



Figure .1- Typical Forward Characteristics

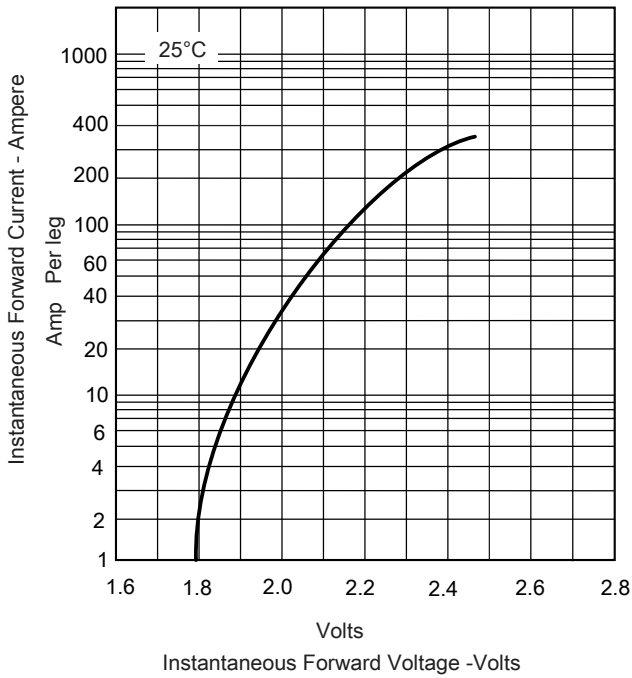


Figure .2-Forward Derating Curve

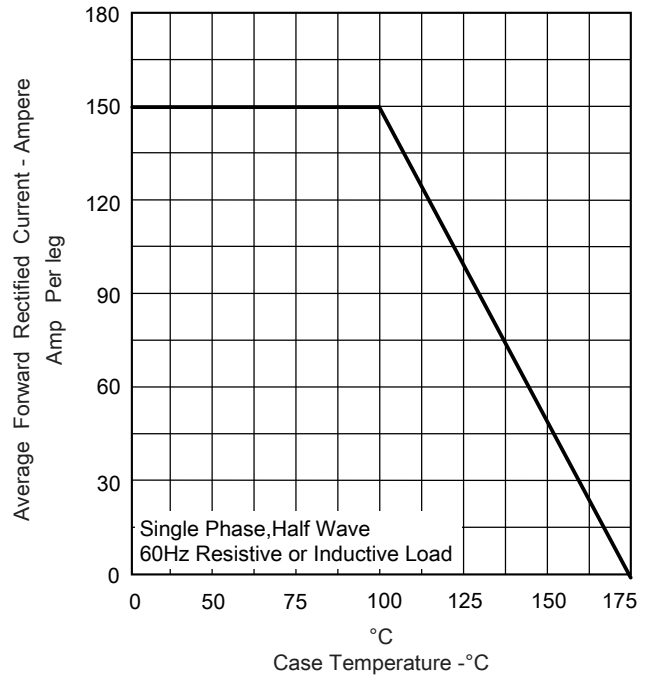


Figure .3- Peak Forward Surge Current

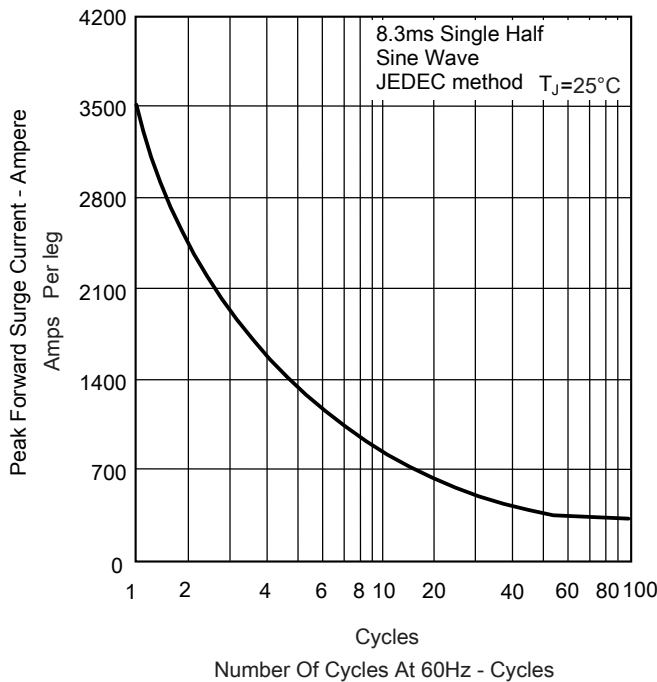


Figure .4-Typical Reverse Characteristics

