



**SUPER FAST DIODE MODULE TYPE 600A**

**Features**

- High Surge Capability
- Type 400V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation base plate

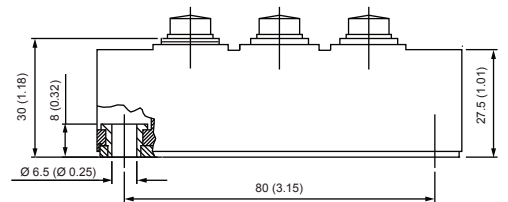


**Maximum Ratings**

Operating Temperature :  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$   
 Storage Temperature :  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$

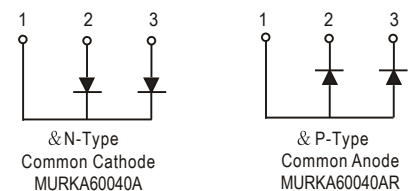
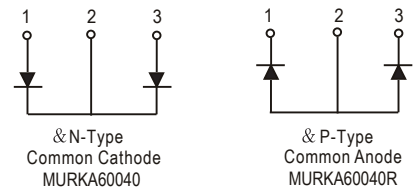
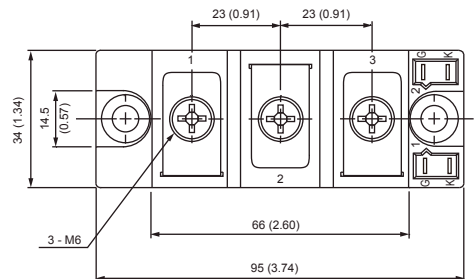
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURKA60040(A)(R)	400V	280V	400V

Dimensions in mm (1 mm = 0.0394")



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	$T_C = 100^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	6000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	$V_F$	1.30V	$I_{FM} = 300\text{A}; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per leg)	$I_R$	$25 \mu\text{A}$ 5 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Reverse Recovery Time (Per leg)	$T_{rr}$	180ns	$I_F = 0.5\text{A}, I_R = 1.0\text{A}, I_{RR} = 0.25\text{A}$
Isolation Voltage	$V_{isol}$	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	$0.14^{\circ}\text{C/W}$ $0.28^{\circ}\text{C/W}$	Per pkg Per leg



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



Figure .1- Typical Forward Characteristics

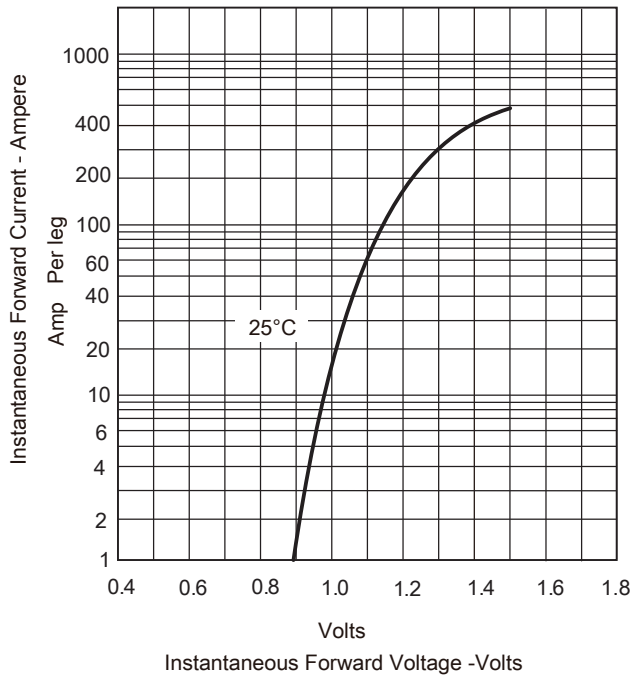


Figure .2-Forward Derating Curve

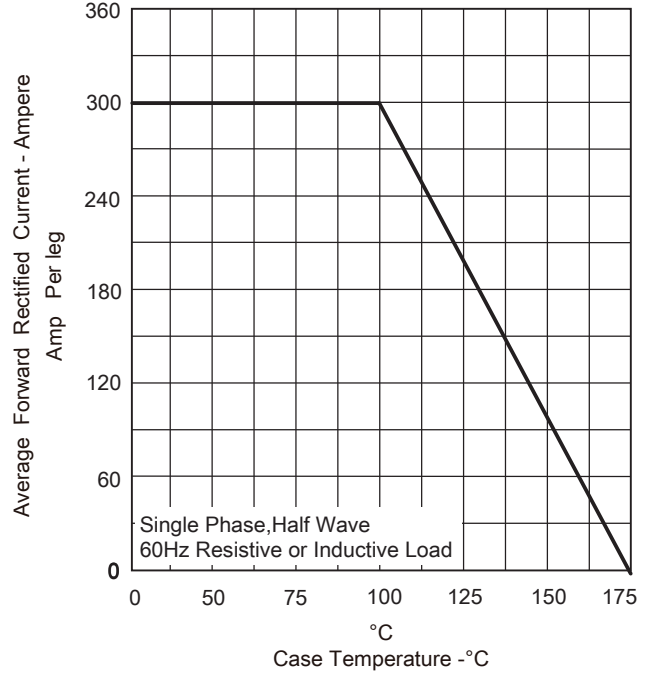


Figure .3- Peak Forward Surge Current

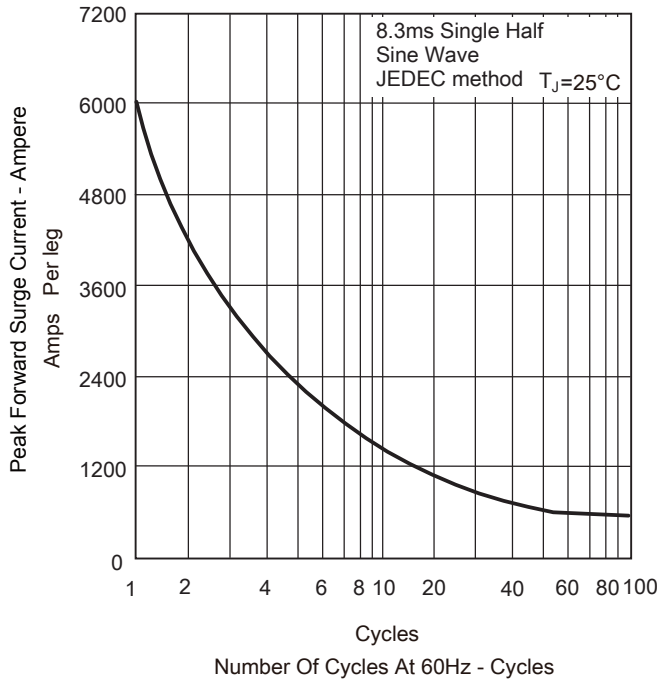


Figure .4-Typical Reverse Characteristics

