

SUPER FAST DIODE MODULE TYPE 600A

Features

High Surge Capability
Type 600V V_{RRM}
Isolation Type Package
Electrically Isolation base plate

Maximum Ratings

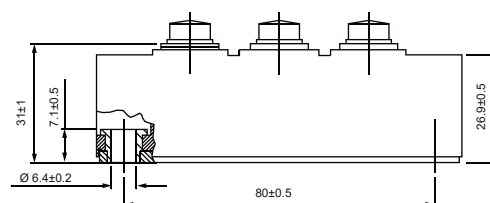
Operating Temperature : -55°C to +175°C
Storage Temperature : -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURKA60060(A)(R)	600V	420V	600V

HEAVY THREE TOWER KA

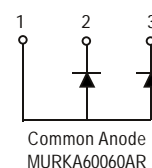
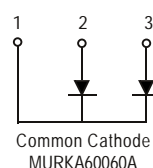
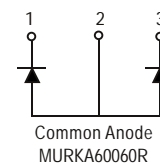
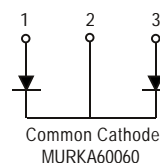
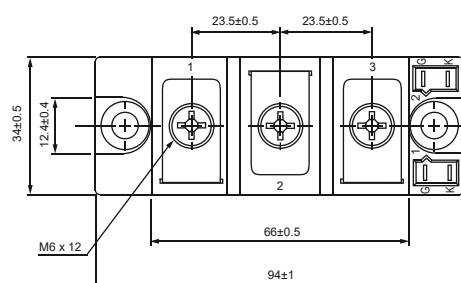


Dimensions in mm (1 mm = 0.0394")



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 diode)	I_{FSM}	6000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per diode)	V_F	1.4V	$I_{FM} = 300A$; $T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per diode)	I_R	50 μA 5 mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Maximum Reverse Recovery Time (Per diode)	T_{rr}	200ns	$I_F = 0.5A, I_R = 1.0A$, $I_{RR} = 0.25A$
Isolation Voltage	V_{isol}	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.14°C/W 0.28°C/W	Per pkg Per diode
Mounting torque	M_d	2.5±0.5Nm 4.5±0.5Nm	To heatsink To terminal



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

Figure .1- Typical Forward Characteristics

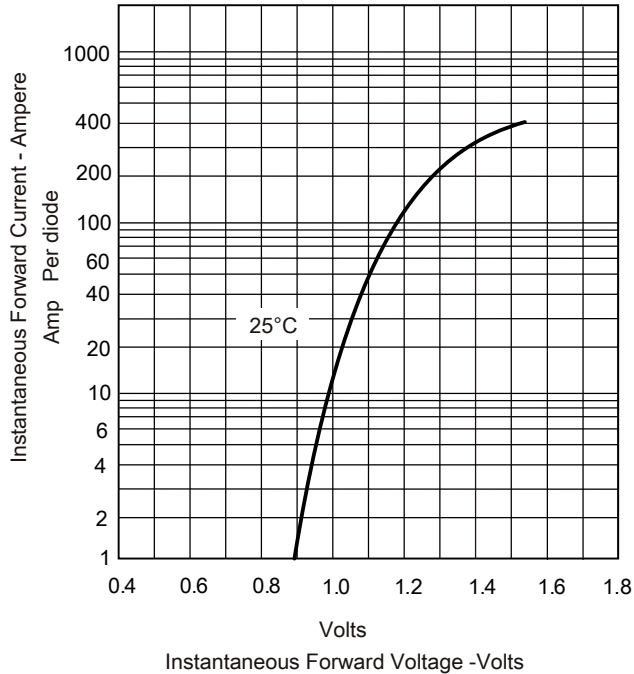


Figure .2-Forward Derating Curve

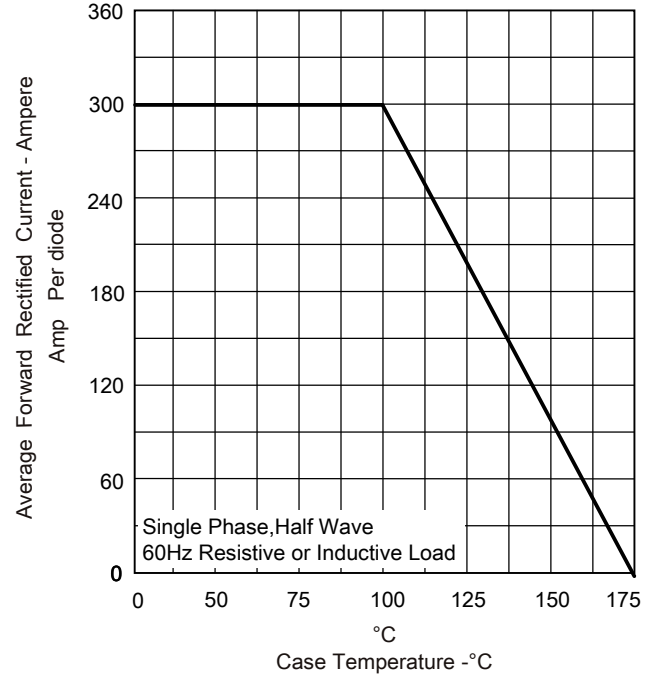


Figure .3- Peak Forward Surge Current

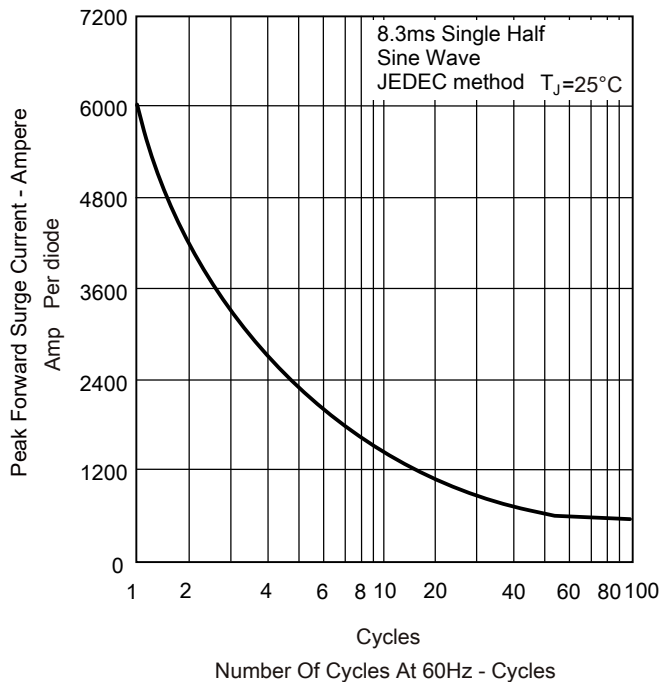
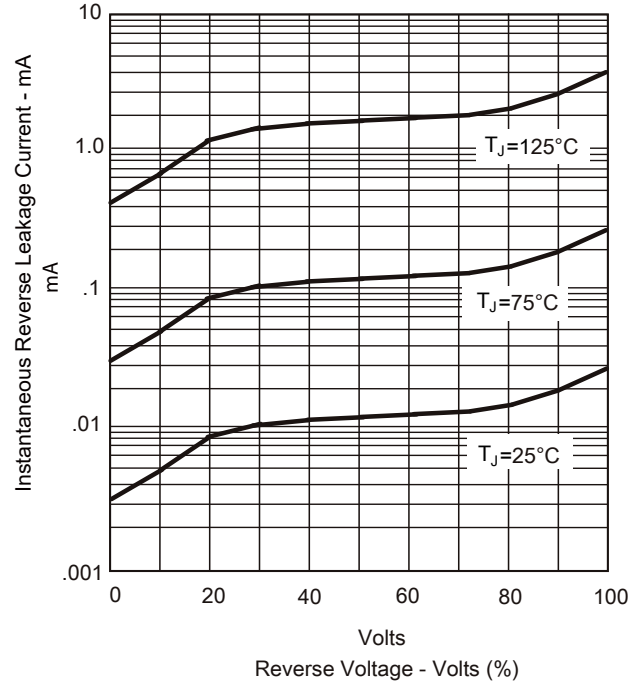


Figure .4- Typical Reverse Characteristics



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