DACO SEMICONDUCTOR

MURKA600120(A)(R)

SUPER FAST DIODE MODULE TYPE 600A

Features

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

HEAVY THREE TOWER KA

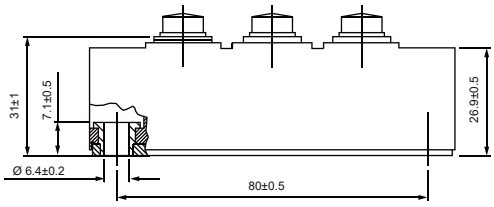
Maximum Ratings

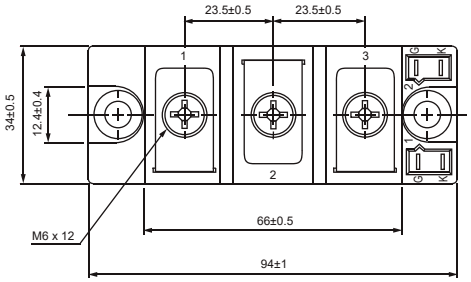
Operating Temperature : -55°C to +175°C

Storage Temperature : -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURKA600120(A)(R)	1200V	840V	1200V

Dimensions in mm (1 mm = 0.0394")

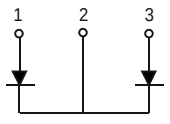




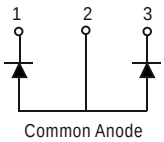
Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	T_C = 100°C
Peak Forward Surge Current (Per diode)	I_{FSM}	6000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per diode)	V_F	2.35V	I_{FM}= 300A; T_J = 25°C
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per diode)	I_R	50 μA 6 mA	T_J = 25°C T_J = 125°C
Maximum Reverse Recovery Time (Per diode)	T_{rr}	250ns	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

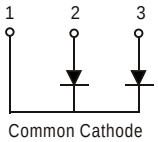
*Pulse Test: Pulse Width 300 μsec, Duty Cycle < 2%



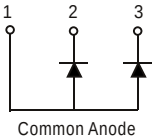
Common Cathode
MURKA600120



Common Anode
MURKA600120R



Common Cathode
MURKA600120A



Common Anode
MURKA600120AR

Figure .1- Typical Forward Characteristics

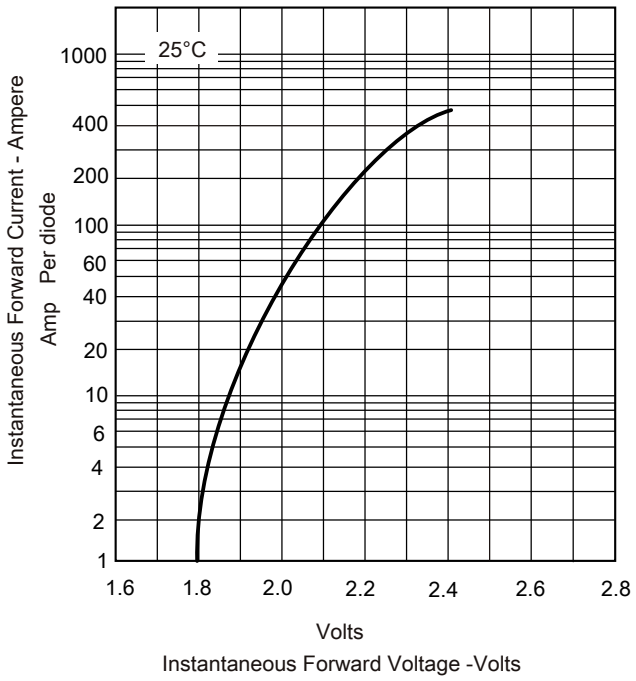


Figure .2-Forward Derating Curve

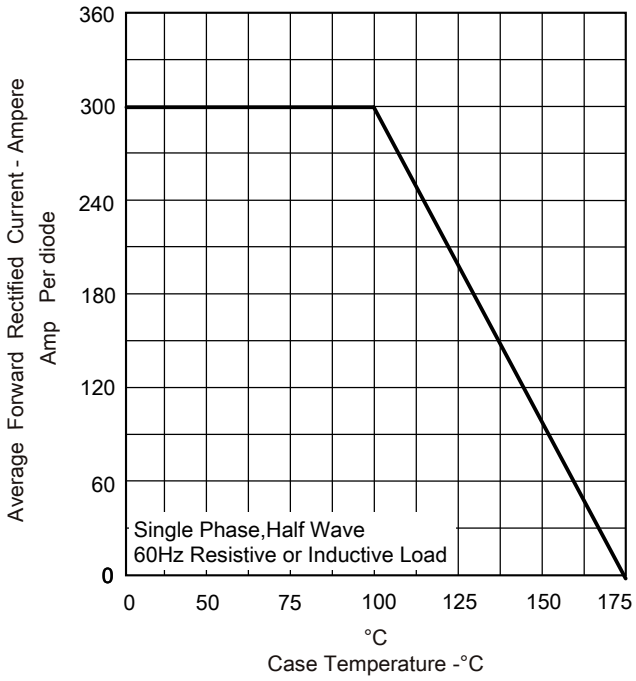


Figure .3- Peak Forward Surge Current

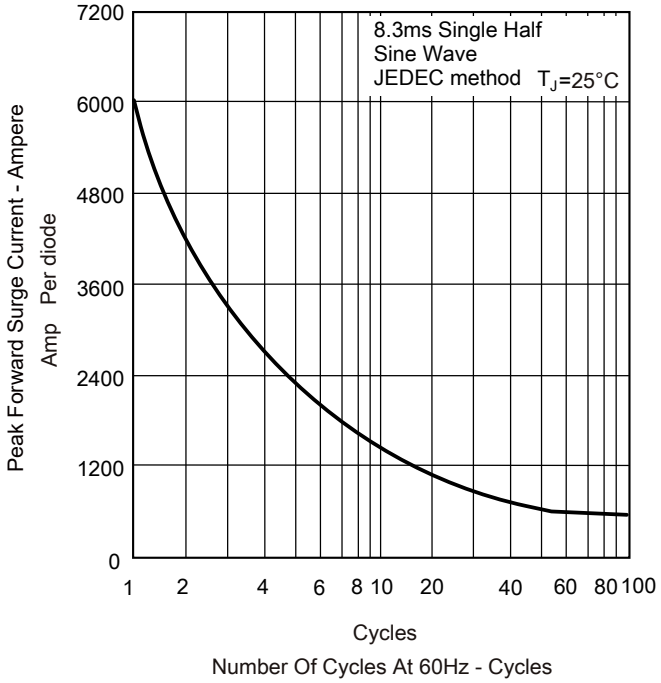
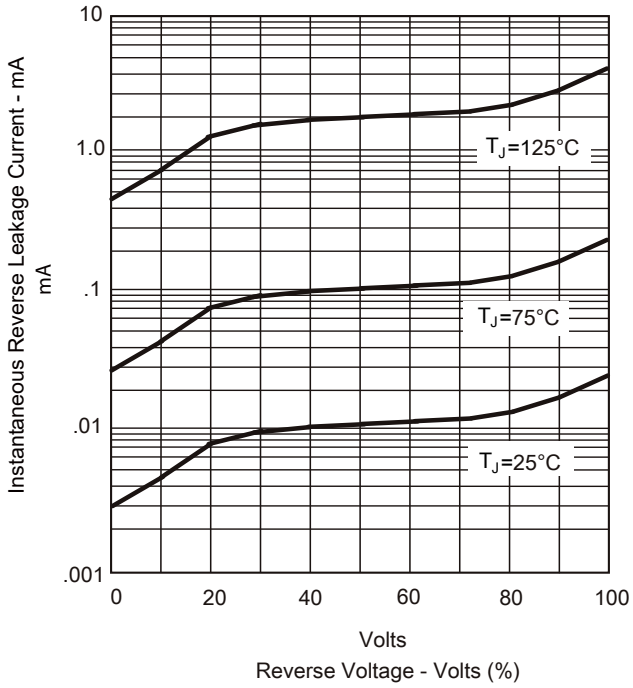


Figure .4 -Typical Reverse Characteristics



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