DACO SEMICONDUCTOR CO.,LTD.

MBRTT30060(A)(D)(R)

SCHOTTKY DIODE MODULE TYPE 300A

Features

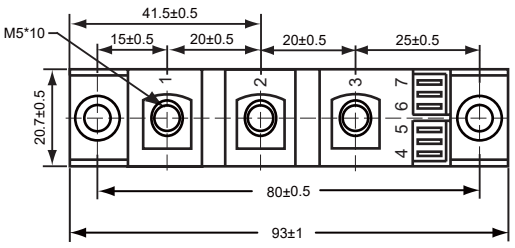
- High Surge Capability
- Type 60V V_{RRM}
- Isolation Type Package
- Electrically Isolation Base Plate

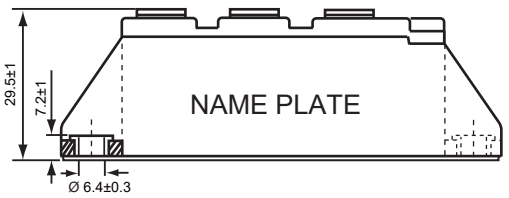
Maximum Ratings

Junction Operating Temperature : -55°C to +150°C
Storage Temperature : -55°C to +150°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRTT30060(A)(D)(R)	60V	42V	60V

Dimensions in mm (1mm = 0.0394")

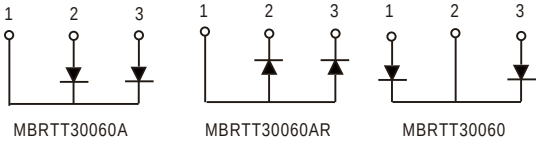


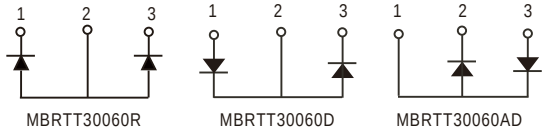


Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward (Per pkg) Current (Per diode)	$I_{F(AV)}$	300A 150A	T_C =125°C
Peak Forward Surge Current (Per diode)	I_{FSM}	2000A	8.3ms, half sine
Maximum (Per diode) Instantaneous Forward Voltage*	V_F	0.72V 0.78V	I_{FM} =150A;T_J =125°C I_{FM} =150A;T_J =25°C
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	I_R	1mA 8mA 20mA	T_J =25°C T_J =125°C T_J =150°C
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.40°C/W	
Mounting Torque		4 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals

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





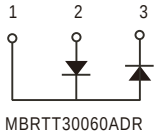


Figure.1 - Typical Forward Characteristics

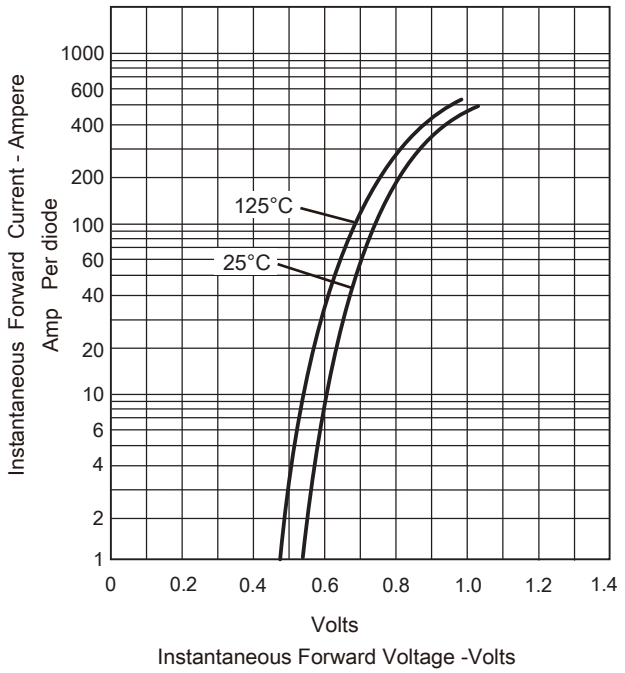


Figure.2 - Forward Derating Curve

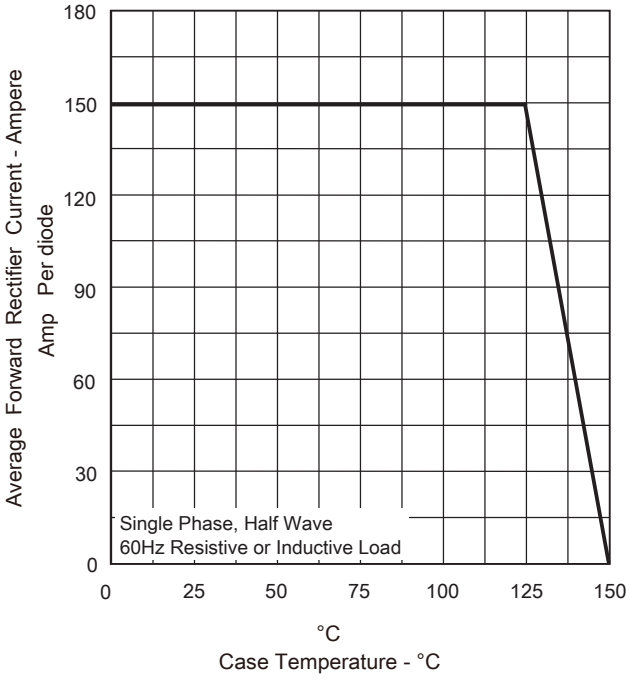


Figure.3 - Peak Forward Surge Current

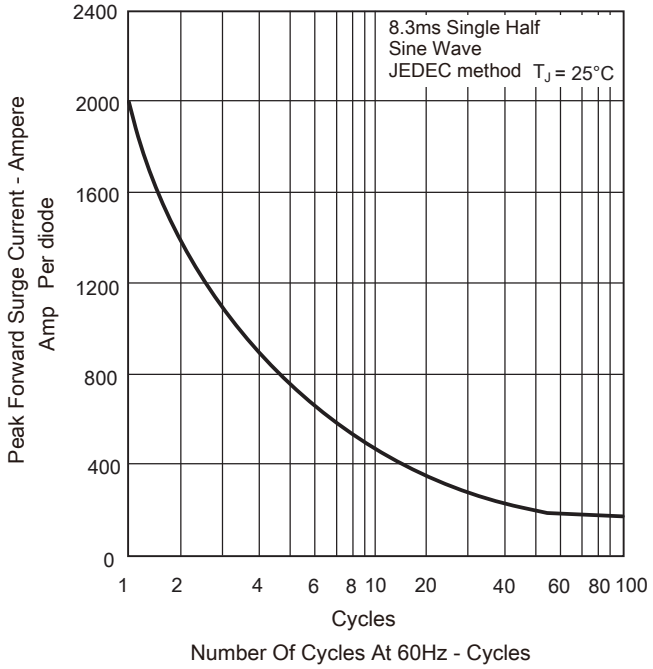
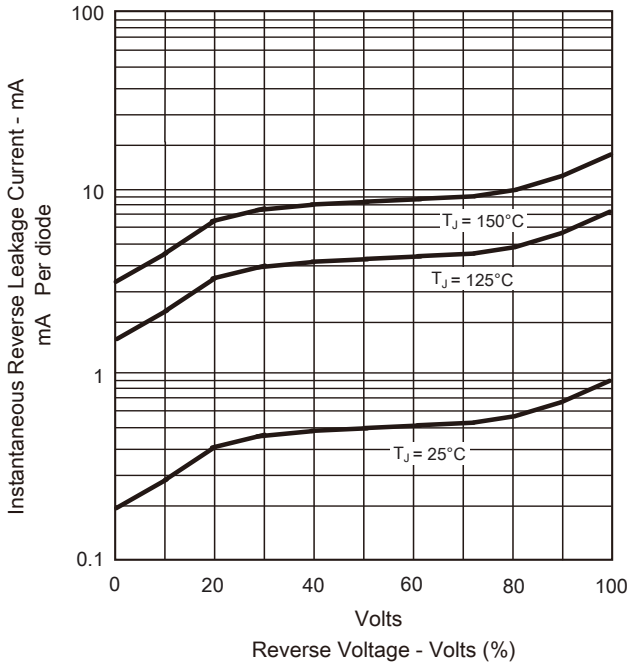


Figure.4 - Typical Reverse Characteristics



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