



SCHOTTKY DIODE MODULE TYPE 600A / 100V

Features

- High Surge Capability
- Type 100V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

Maximum Ratings

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
MBRTT600100(A)(D)(R)	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	$T_C = 125^\circ\text{C}$
Peak Forward Surge Current (Per diode)	I_{FSM}	4000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per diode)	V_F	0.74V 0.84V	$I_{FM}=300\text{A}; T_J = 125^\circ\text{C}$ $I_{FM}=300\text{A}; T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	I_R	1mA 8mA 15mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.28°C/W	
Mounting torque		4 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals
Weight		106g	

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



Dimensions in mm (1 mm = 0.0394")

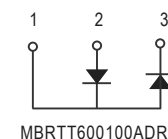
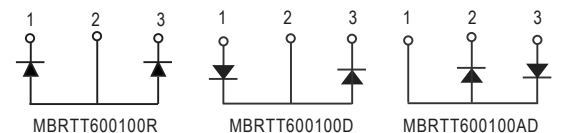
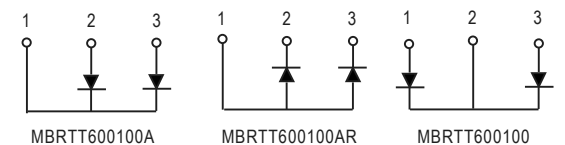
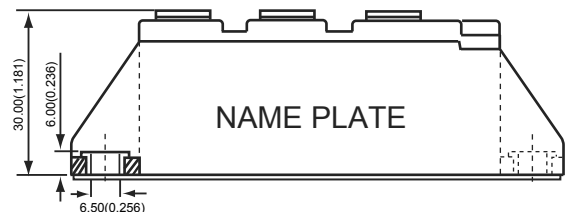
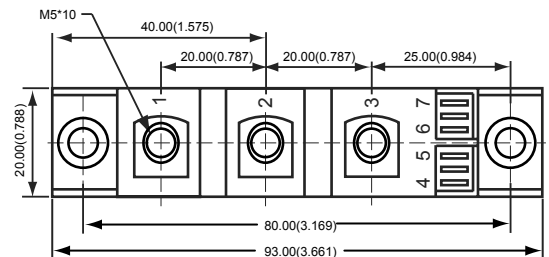




Figure .1- Typical Forward Characteristics

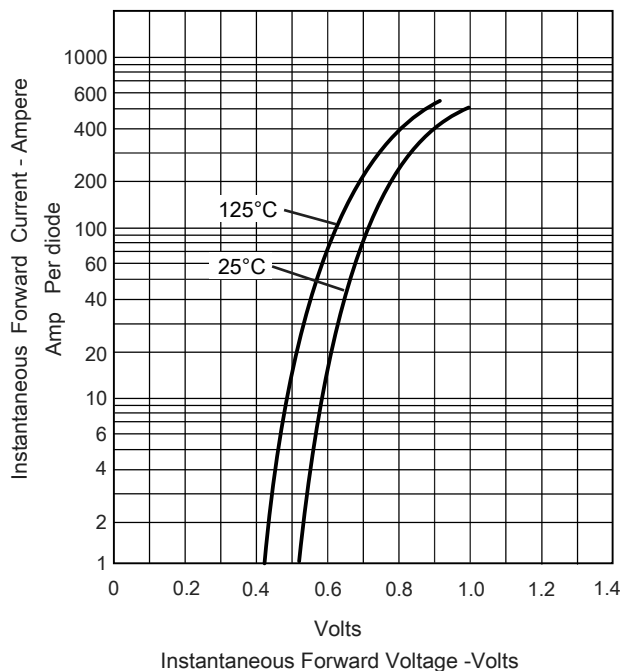


Figure .2-Forward Derating Curve

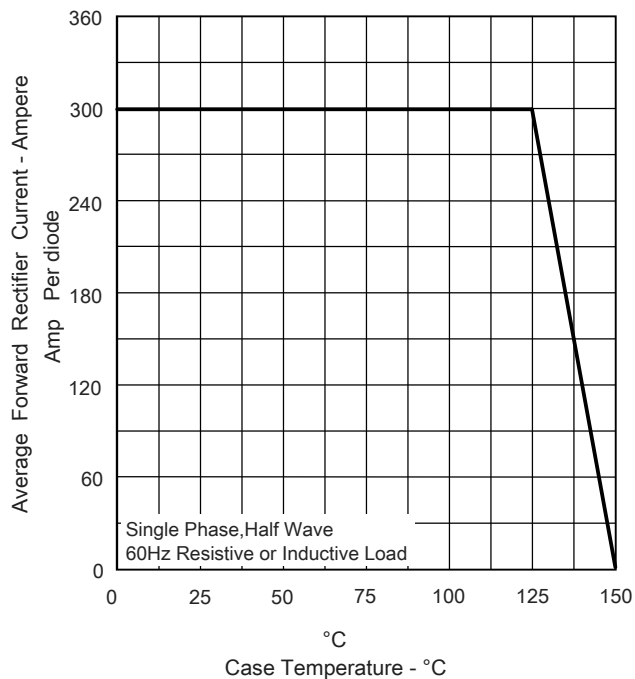


Figure .3-Peak Forward Surge Current

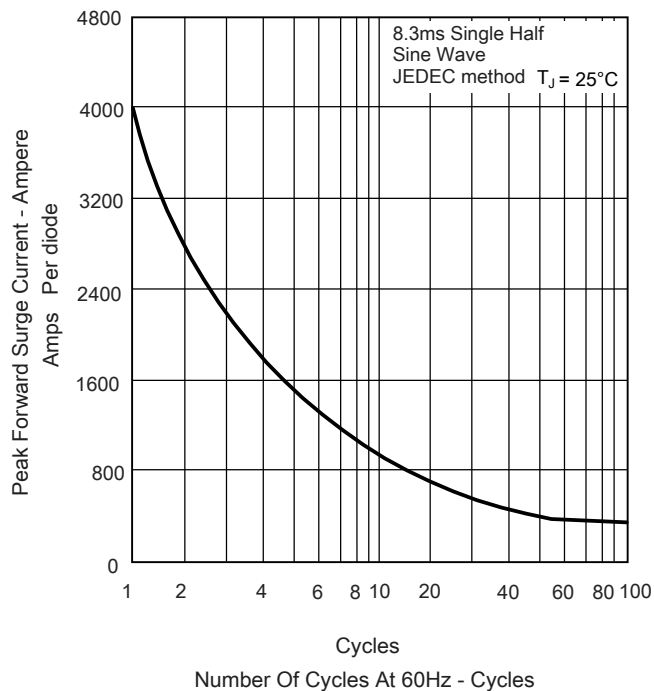
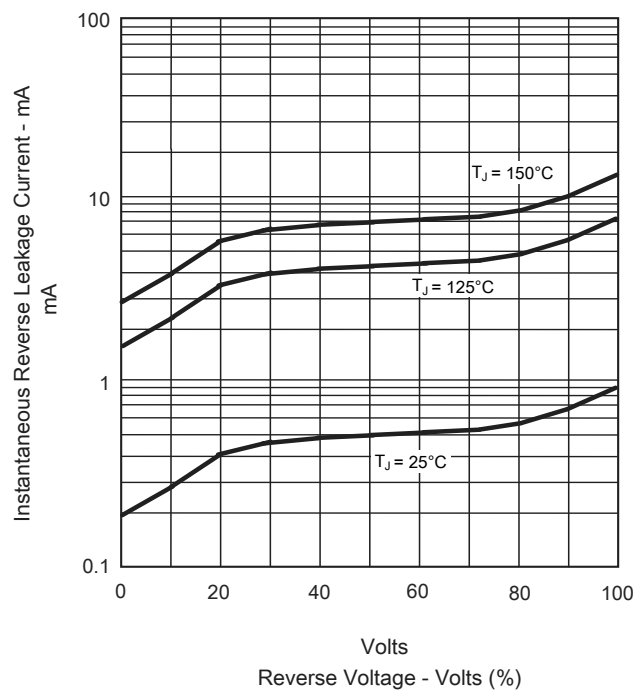


Figure .4-Typical Reverse Characteristics





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