



**SCHOTTKY DIODE MODULE TYPES  
400A / 20-45V**

**Features**

- High Surge Capability
- Types up to 45 V<sub>RRM</sub>
- 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
MBRTT40020(A)(D)(R)	20V	14V	20V
MBRTT40030(A)(D)(R)	30V	21V	30V
MBRTT40035(A)(D)(R)	35V	25V	35V
MBRTT40040(A)(D)(R)	40V	28V	40V
MBRTT40045(A)(D)(R)	45V	32V	45V

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

Average Forward Current (Per pkg)	I <sub>F(AV)</sub>	400A	T <sub>C</sub> = 125°C
Peak Forward Surge Current (Per leg)	I <sub>FSM</sub>	3000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	V <sub>F</sub>	0.64V 0.70V	I <sub>FM</sub> =200A; T <sub>J</sub> = 125°C I <sub>FM</sub> =200A; T <sub>J</sub> = 25°C
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per leg)	I <sub>R</sub>	1mA 10mA 50mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C T <sub>J</sub> = 150°C
Isolation Voltage	V <sub>iso</sub>	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	R <sub>θjc</sub>	0.35°C/W	
Mounting torque		4 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals

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



Dimensions in mm (1 mm = 0.0394")

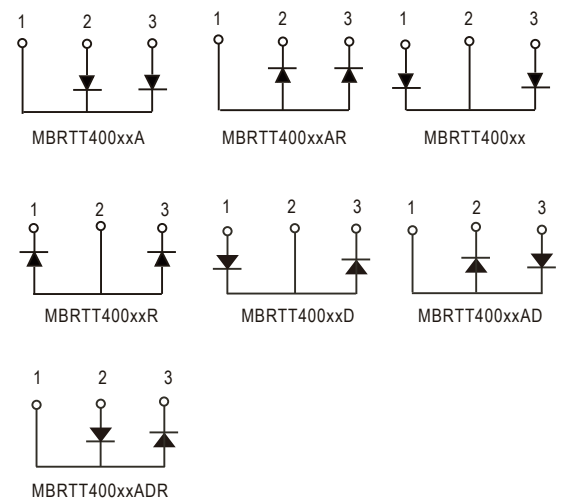
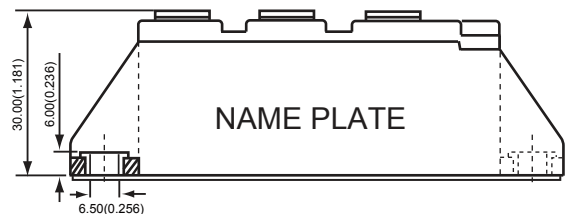
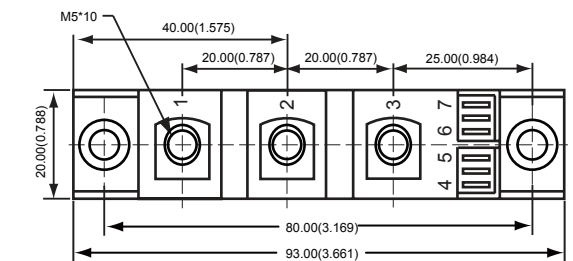




Figure .1- Typical Forward Characteristics

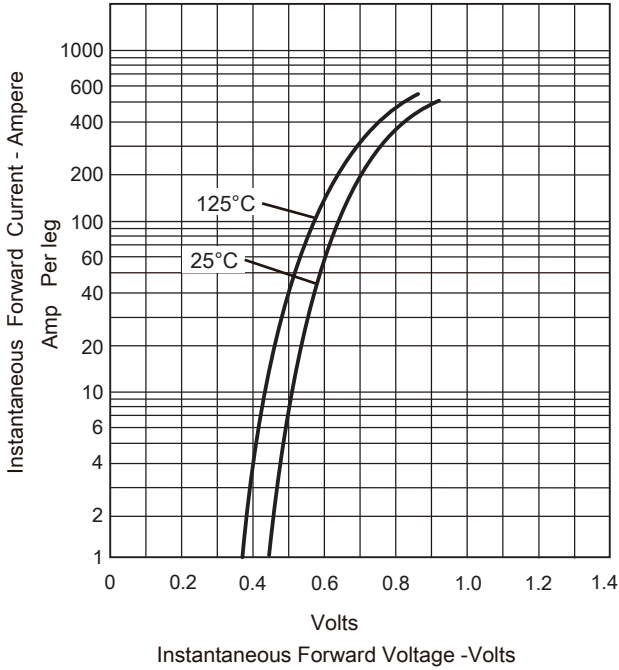


Figure .2-Forward Derating Curve

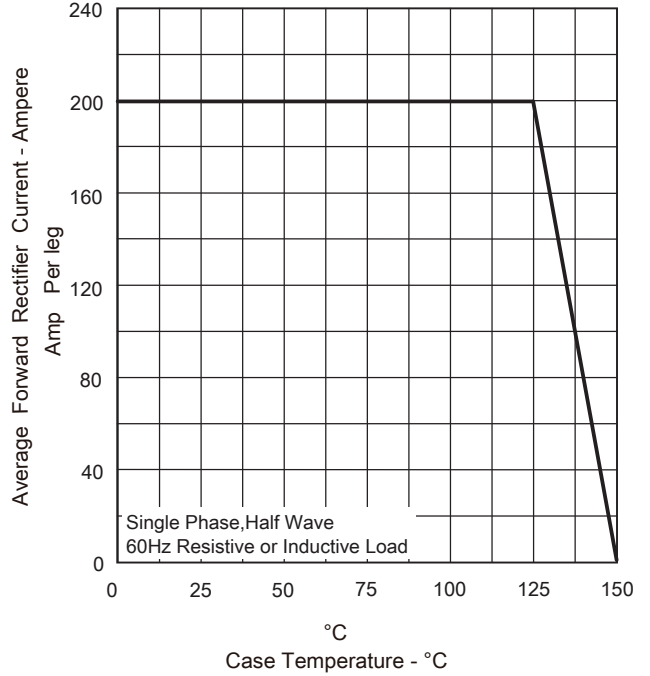


Figure .3- Peak Forward Surge Current

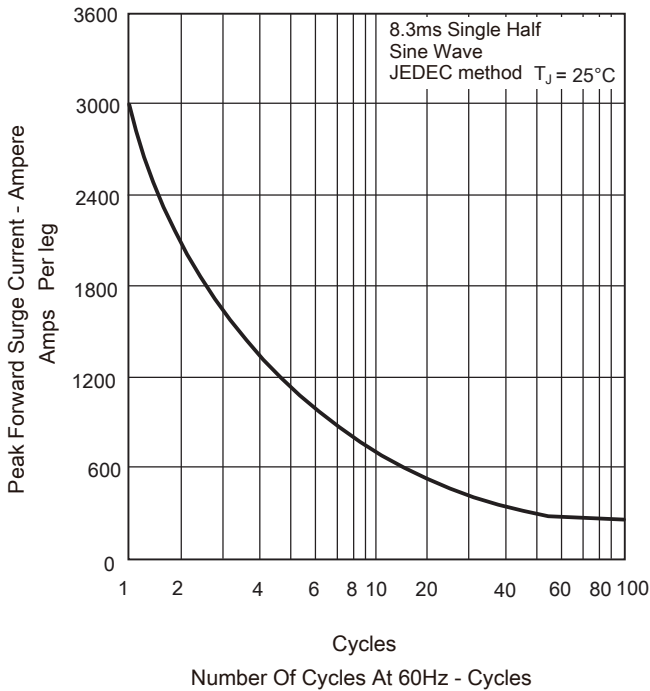
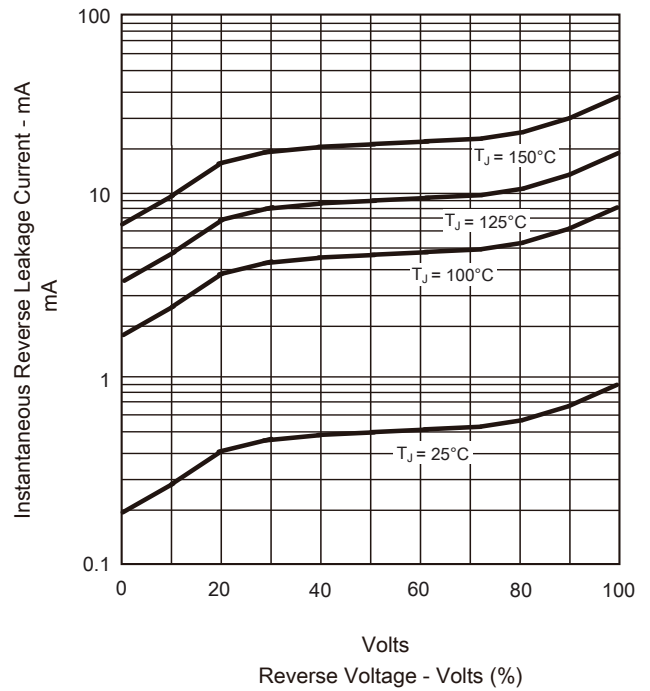


Figure .4-Typical Reverse Characteristics





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