

SCHOTTKY DIODE MODULE TYPES 200A

Features

- High Surge Capability
- Types Up to 45V V_{RRM}
- Isolation Type Package
- Electrically Isolation Base Plate

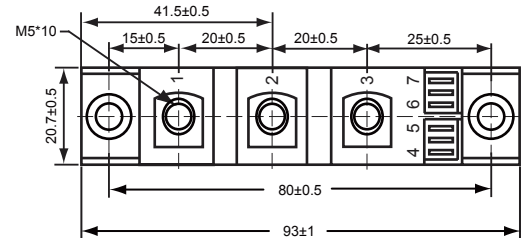
Maximum Ratings

Junction Operating Temperature : -55°C to $+150^{\circ}\text{C}$
Storage Temperature : -55°C to $+150^{\circ}\text{C}$



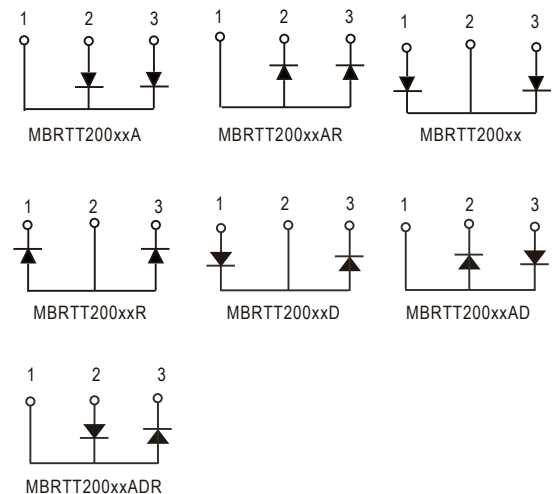
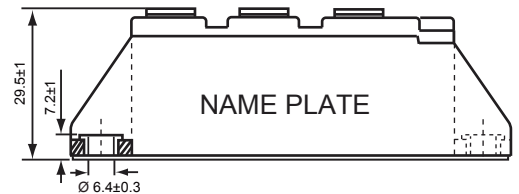
Dimensions in mm (1mm = 0.0394")

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRTT20020(A)(D)(R)	20V	14V	20V
MBRTT20030(A)(D)(R)	30V	21V	30V
MBRTT20035(A)(D)(R)	35V	25V	35V
MBRTT20040(A)(D)(R)	40V	28V	40V
MBRTT20045(A)(D)(R)	45V	32V	45V



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg) (Per diode)	$I_{F(AV)}$	200A 100A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current (Per diode)	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage* (Per diode)	V_F	0.64V 0.70V	$I_{FM} = 100\text{A}; T_J = 125^{\circ}\text{C}$ $I_{FM} = 100\text{A}; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per diode)	I_R	1mA 8mA 30mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Isolation Voltage	V_{iso}	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.45°C/W	
Mounting Torque		4 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals



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



Figure.1 - Typical Forward Characteristics

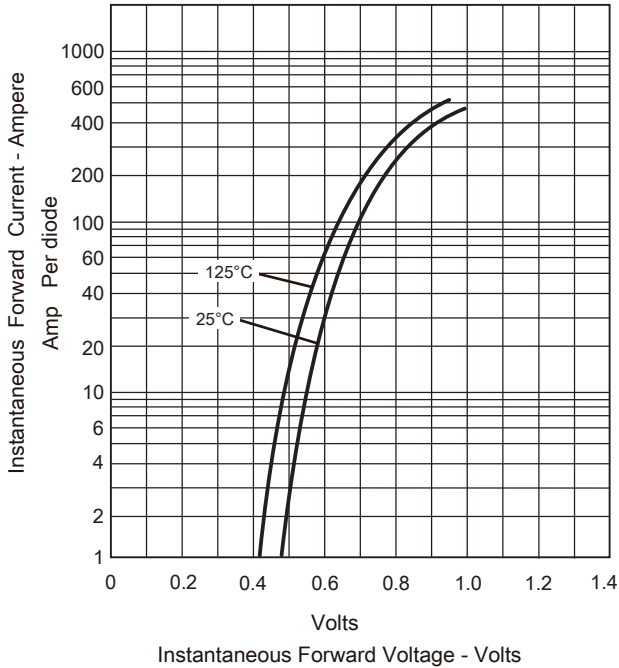


Figure.2 - Forward Derating Curve

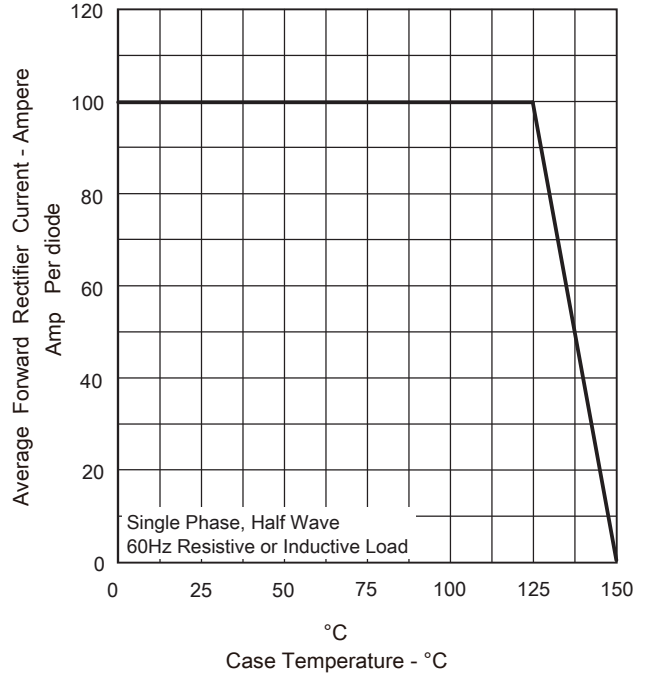


Figure.3 - Peak Forward Surge Current

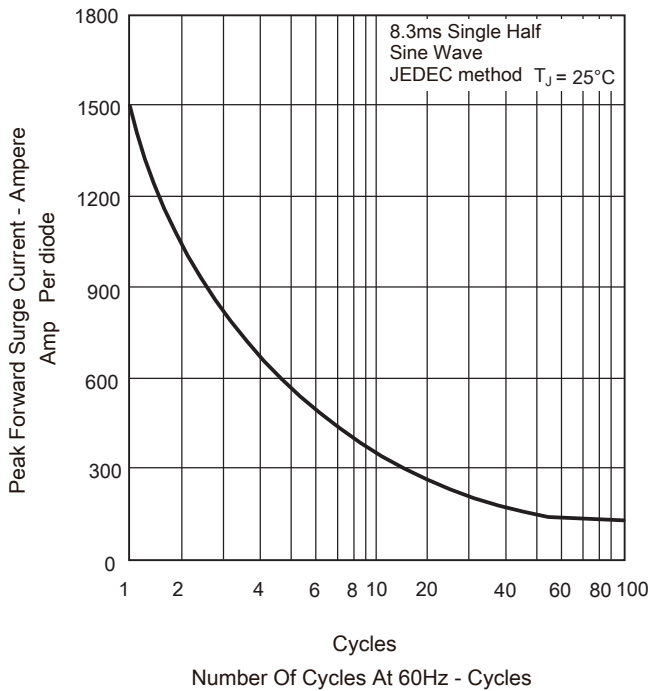
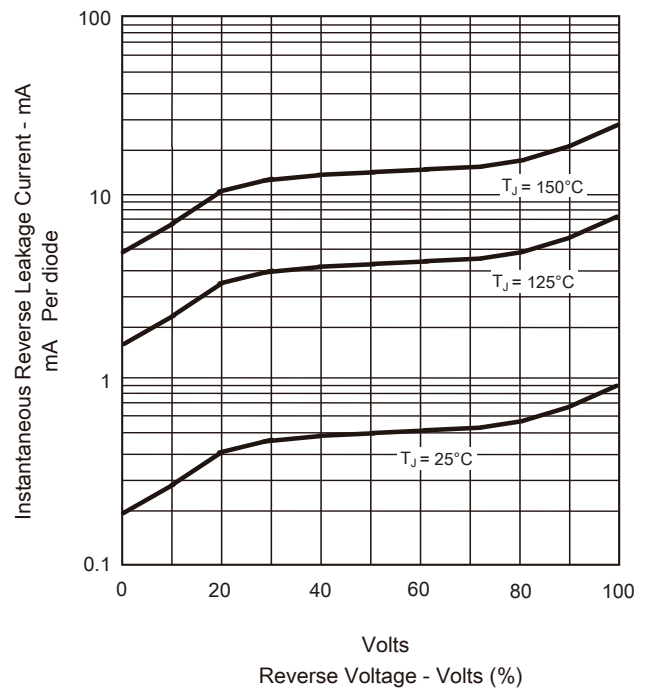


Figure.4 - Typical Reverse Characteristics





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