

MBRTT60020(A)(D)(R) THRU MBRTT60045(A)(D)(R)

SCHOTTKY DIODE MODULE TYPES 600A

Features

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

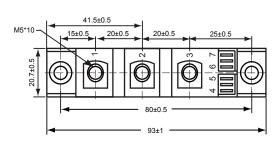
Maximum Ratings

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRTT60020(A)(D)(R)	20V	14V	20V
MBRTT60030(A)(D)(R)	30V	21V	30V
MBRTT60035(A)(D)(R)	35V	25V	35V
MBRTT60040(A)(D)(R)	40V	28V	40V
MBRTT60045(A)(D)(R)	45V	32V	45V

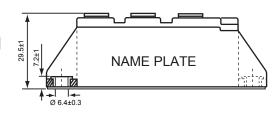
TO-240AA

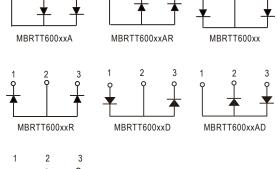
Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 $^{\circ}\text{C}$ Unless Otherwise Specified

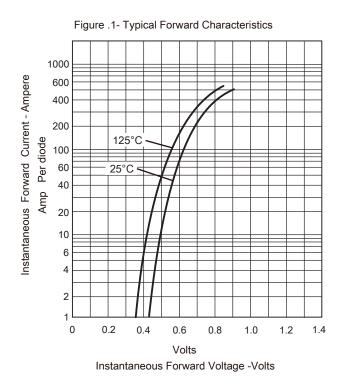
Average Forward (Per pkg) Current (Per diode)	I F(AV)	600A 300A	Tc =125°C
Peak Forward Surge Current (Per diode)	IFSM	4000A	8.3ms , half sine
Maximum (Per diode) Instantaneous Forward Voltage *	VF	0.69V 0.75V	IFM =300A;TJ =125°C IFM =300A;TJ =25°C
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	ΙR	1mA 10mA 50mA	T _J = 25°C T _J = 125°C T _J = 150°C
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.28°C/W	
Mounting Torque		4 ± 0.5Nm 3 ± 0.5Nm	

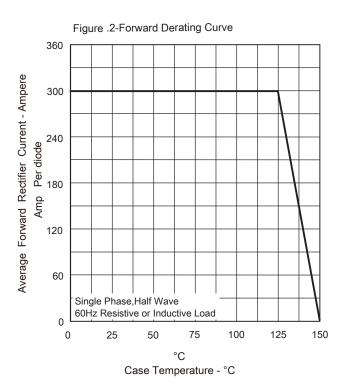


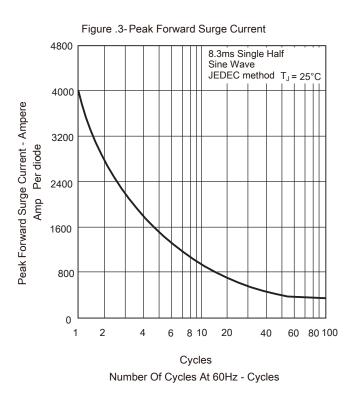


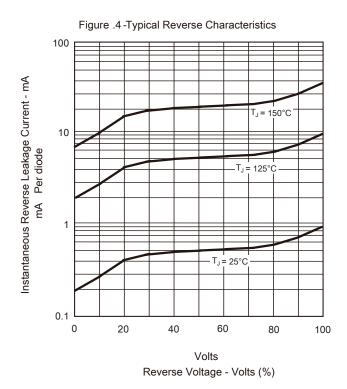
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^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%









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March 2022 Rev. 1.1

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