

MBRTT40020(A)(D)(R) THRU MBRTT40045(A)(D)(R)

SCHOTTKY DIODE MODULE TYPES 400A

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
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

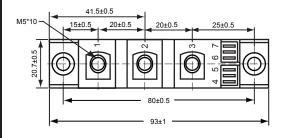
Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

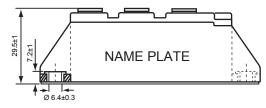
Average Forward (Per pkg) Current (Per diode)	lF(AV)	400A 200A	Tc =125°C	
Peak Forward Surge Current (Per diode)	İfsm	3000A	8.3ms , half sine	
Maximum (Per diode) Instantaneous Forward Voltage *	VF	0.69V 0.75V	IFM =200A;TJ =125°C IFM =200A;TJ =25°C	
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lR	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)	Røj c	0.35°C/W		
Mounting Torque		4 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals	

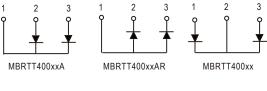
^{*}Pulse Test: Pulse Width 300 \(\mu \) sec, Duty Cycle < 2%

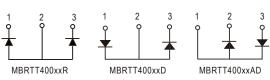


Dimensions in mm (1 mm = 0.0394")

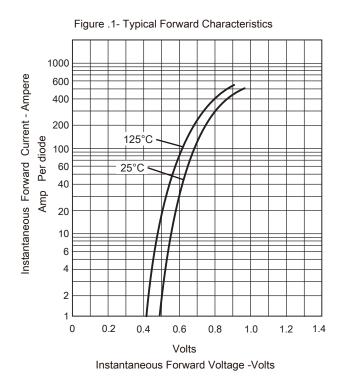


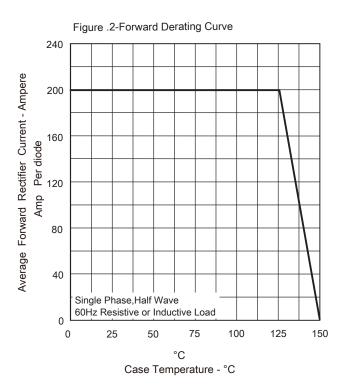


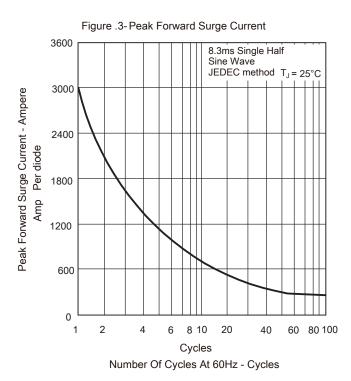


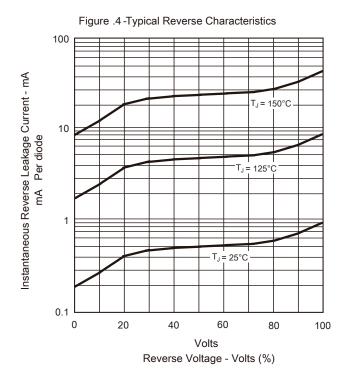












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