

MBRT30020(R) THRU MBRT30045(R)

SCHOTTKY DIODE MODULE TYPES 300A / 20V-45V

Features

High Surge Capability
Types Up to 45V VRRM
Isolation Type Package
Electrically Isolation base plate

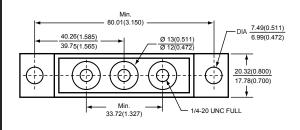
Maximum Ratings

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
MBRT30020(R)	20V	14V	20V
MBRT30030(R)	30V	21V	30V
MBRT30035(R)	35V	25V	35V
MBRT30040(R)	40V	28V	40V
MBRT30045(R)	45V	32V	45V

THREE TOWER

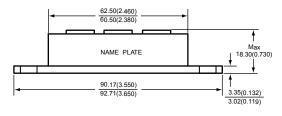
Dimensions in mm (1 mm = 0.0394")

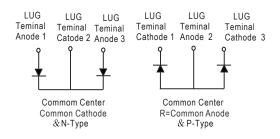


Electrcal Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	[F(AV)	300A	Tc=125°C
Peak Forward Surge Current (Per diode)	İFSM	2000A	8.3ms,half sine
Maximum (Per diode) Instantaneous Forward Voltage	V _F	0.70V	I _{FM} =150А; ТJ=25°С
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per diode)	I _R	1 mA 8 mA 40 mA	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$ $T_J = 150^{\circ}C$
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.40°C/W	
Weight		103g	

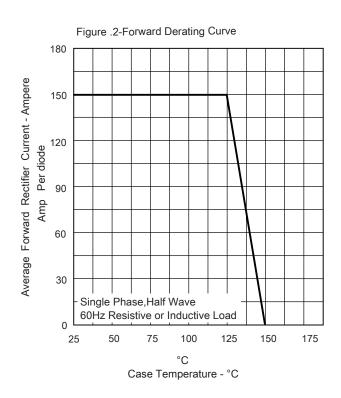
NOTE : (1) Pulse Test: Pulse Width 300 μ sec,Duty<2%

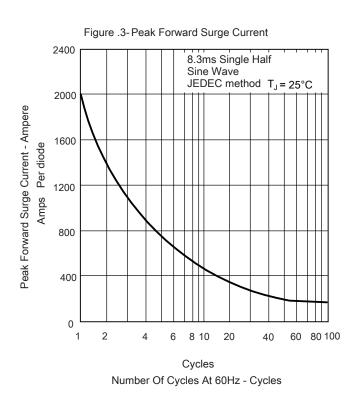


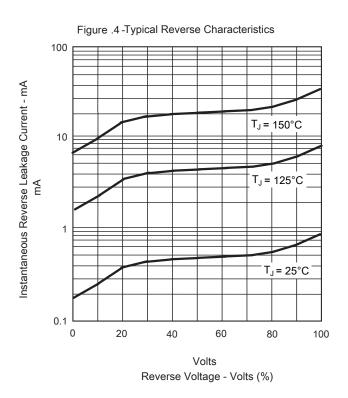


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Figure .1- Typical Forward Characteristics $T_J = 25^{\circ}C$ 1000 nstantaneous Forward Current - Ampere 600 400 200 Per diode 100 40 20 10 6 4 2 0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 Volts Instantaneous Forward Voltage -Volts









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