

MBR40020CT(R) THRU MBR40045CT(R)

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

### **Features**

High Surge Capability Types up to 45V V<sub>RRM</sub>

# **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
MBR40020CT(R)	20V	14V	20V
MBR40030CT(R)	30V	21V	30V
MBR40035CT(R)	35V	25V	35V
MBR40040CT(R)	40V	28V	40V
MBR40045CT(R)	45V	32V	45V

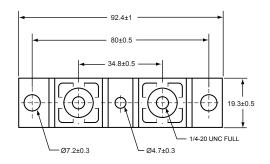
## Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

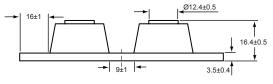
Average Forward Current (Per pkg)	lf(AV)	400A	Tc = 125°C
Peak Forward Surge Current (Per diode)	IFSM	3000A	8.3ms , half sine
Maximum (Per diode) Instantaneous Forward Voltage *	VF	0.65V 0.70V	IFM=200A;ТJ = 125°С IFM=200A;ТJ = 25°С
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per diode)	lr	1mA 10mA 50mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C T <sub>J</sub> = 150°C
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.35°C/W	
Mounting torque		35-40 In-lb 30-40 In-lb 8-10 In-lb	Terminal Torque Outside holes Center hole
Weight		84g	

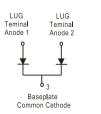
<sup>\*</sup>Pulse Test: Pulse Width 300  $\mu$ sec, Duty Cycle < 2%

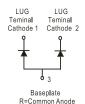


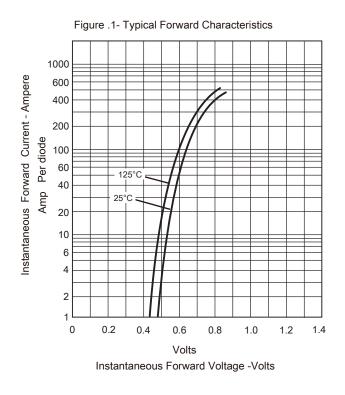
Dimensions in mm (1 mm = 0.0394")

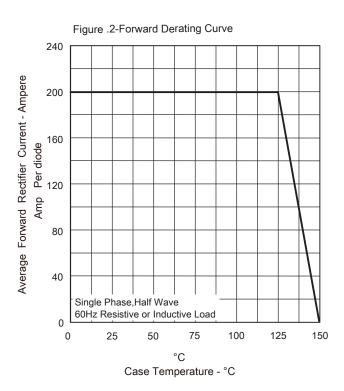


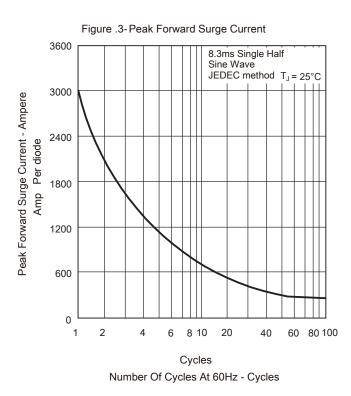


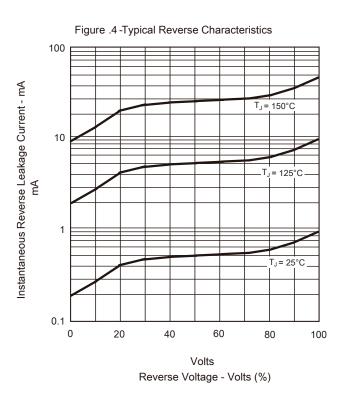














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