# MBRQ302150CT(R)

# SCHOTTKY DIODE MODULE TYPE 300A / 150V

### **Features**

High Surge Capability Type 150V V<sub>RRM</sub>

## **Maximum Ratings**

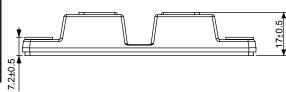
Junction Operating Temperature : -55 °C to+150 °C

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRQ302150CT(R)	150V	105V	150V



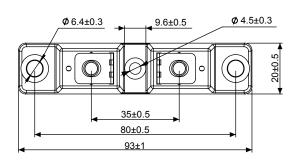
Dimensions in mm (1 mm = 0.0394")

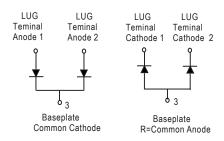


## Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

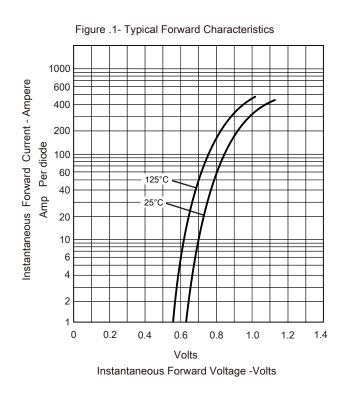
Average Forward Current (Per pkg)	IF(AV)	300A	Tc = 125°C
Peak Forward Surge Current (Per diode)	İFSM	2000A	8.3ms , half sine
Maximum (Per diode) Instantaneous Forward Voltage*	VF	0.80V 0.88V	IFM=150A;ТJ = 125°С IFM=150A;ТJ = 25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lr	3mA 10mA 50mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C T <sub>J</sub> = 150°C
Maximum Thermal Resistance Junction To Case (Per diode)	Røjc	0.40°C/W	
Mounting torque		4 ± 0.5Nm 4 ± 0.5Nm	To heatsink To terminals

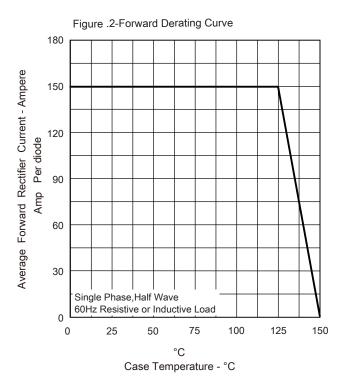
<sup>\*</sup>Pulse Test: Pulse Width 300  $\mu\,{\rm sec},$  Duty Cycle < 2%

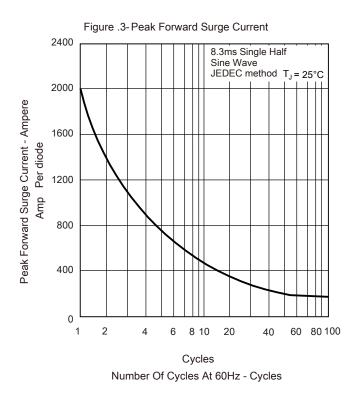


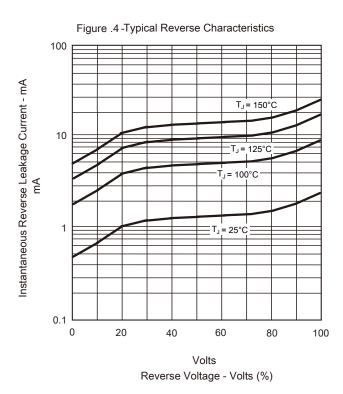


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