



SCHOTTKY DIODE MODULE TYPE 600A

Features

High Surge Capability  
Type 200V  $V_{RRM}$

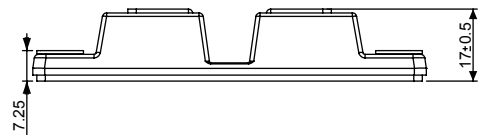


Maximum Ratings

Operating Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$   
Storage Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

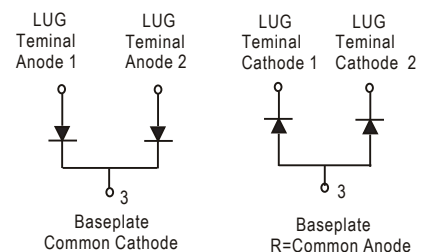
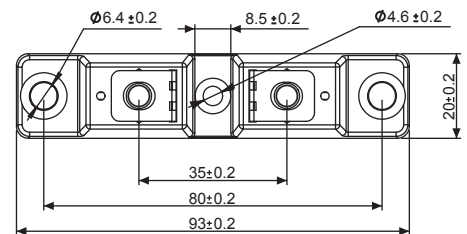
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRQ600200CT(R)	200V	140V	200V

Dimensions in mm (1 mm = 0.0394")



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	4000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	$V_F$	0.83V 0.92V	$I_{FM} = 300\text{A}; T_J = 125^{\circ}\text{C}$ $I_{FM} = 300\text{A}; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	4mA 10mA 50mA	$T_J = 25^{\circ}\text{C}$ $T_J = 100^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.28 $^{\circ}\text{C}/\text{W}$	
Mounting torque		4 $\pm$ 0.5Nm 4 $\pm$ 0.5Nm	To heatsink To terminals



NOTE :

(1) Pulse Test: Pulse Width 300  $\mu$  sec. Duty Cycle < 2%



Figure.1 - Typical Forward Characteristics

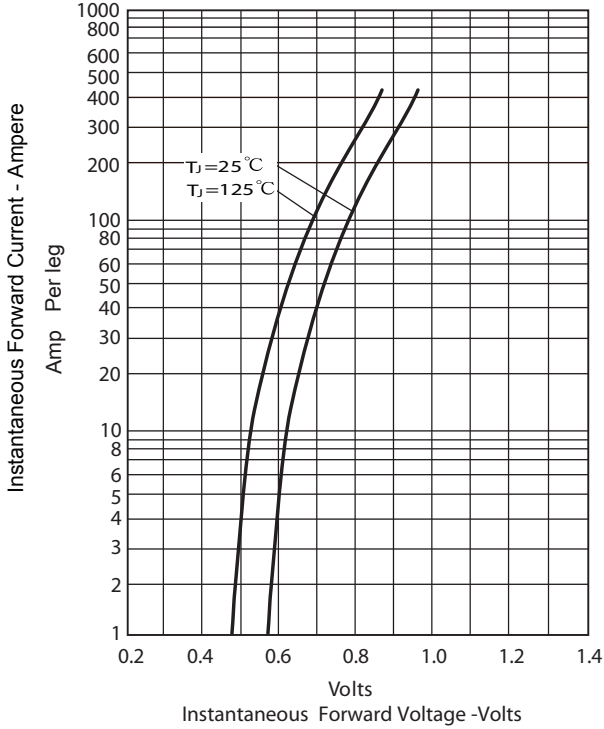


Figure.2 - Forward Derating Curve

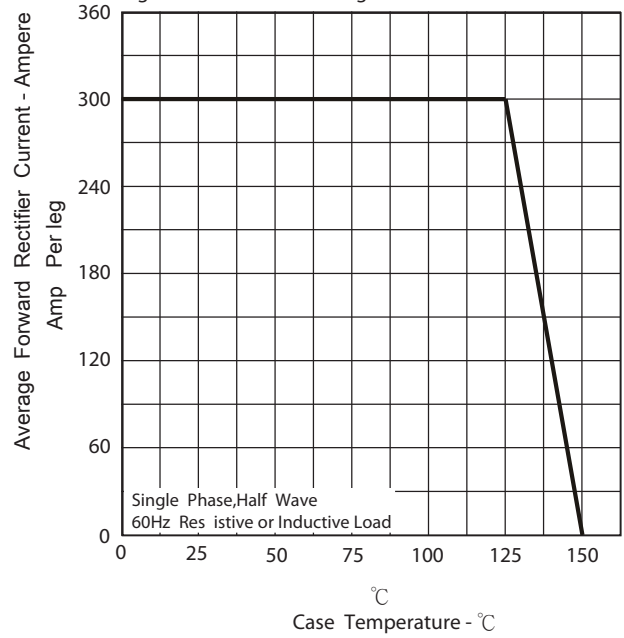


Figure.3 - Peak Forward Surge Current

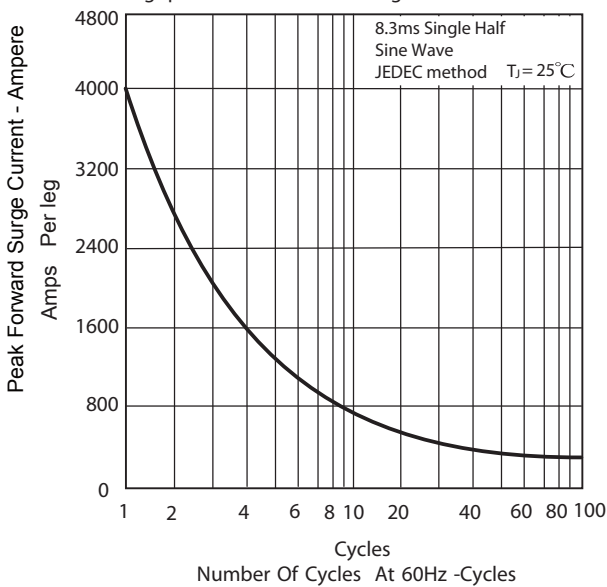


Figure.4 - Typical Reverse Characteristics

