



SCHOTTKY DIODE MODULE TYPE  
400A / 100V

Features

- High Surge Capability
- Type 100V  $V_{RRM}$

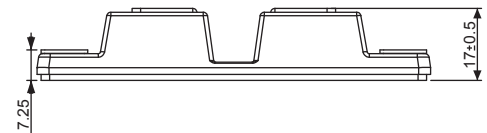
Maximum Ratings

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



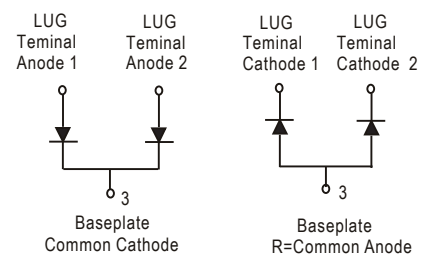
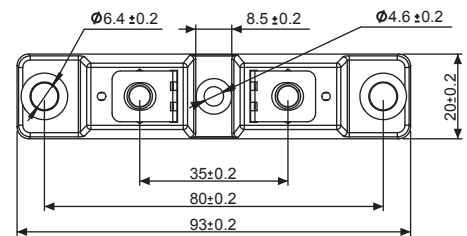
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRQ400100CT(R)	100V	70V	100V

Dimensions in mm (1 mm = 0.0394")



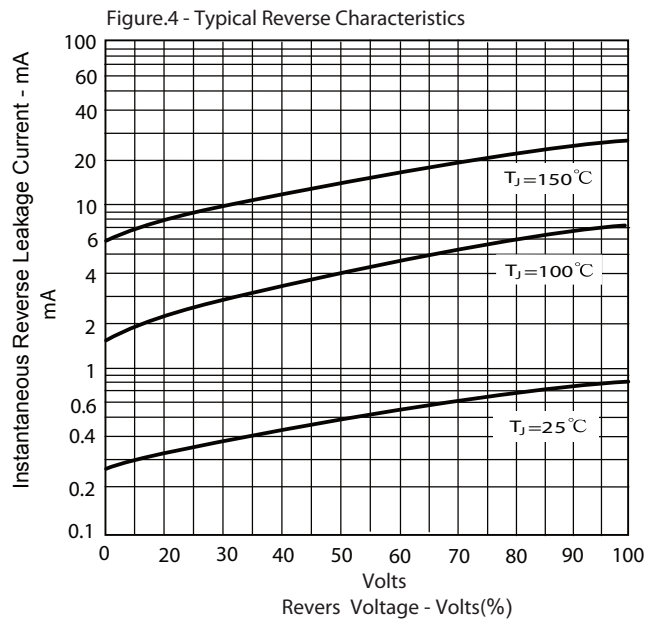
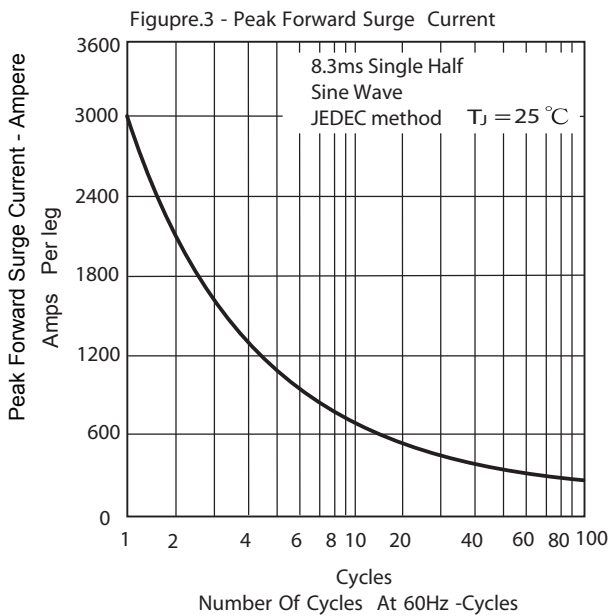
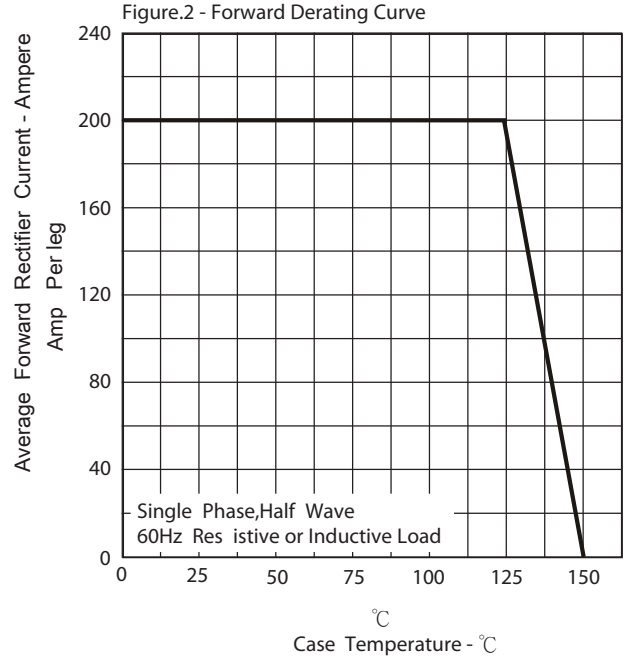
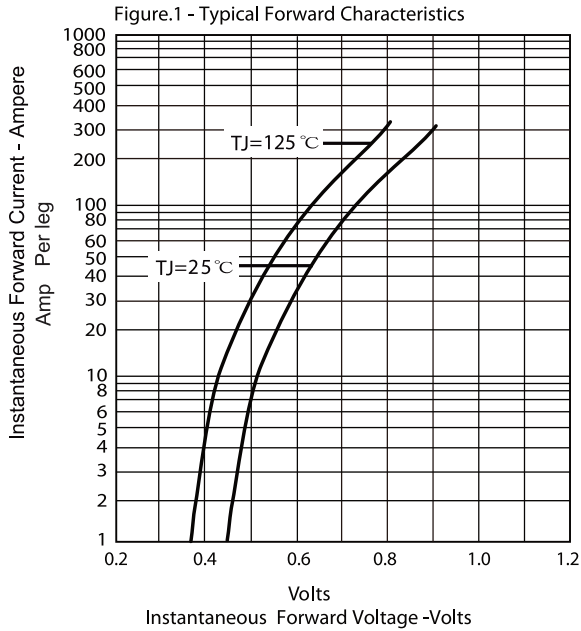
Electrical Characteristics @  $25^{\circ}\text{C}$  Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	$T_C=125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	3000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	$V_F$	0.84V 0.74V	$I_{FM}=200\text{A}; T_J=25^{\circ}\text{C}$ $I_{FM}=200\text{A}; T_J=125^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	1mA 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)	$R_{\theta jc}$	0.15 $^{\circ}\text{C}/\text{W}$	
Mounting torque		4 ± 0.5Nm 4 ± 0.5Nm	To heatsink To terminals



NOTE :

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





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