

SCHOTTKY DIODE MODULE TYPE 200A

Features

High surge Capability
Type 150V V_{RRM}

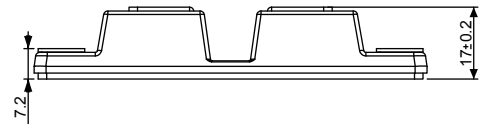


Maximum Ratings

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

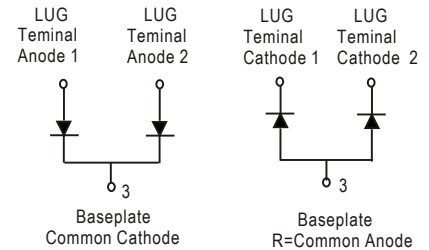
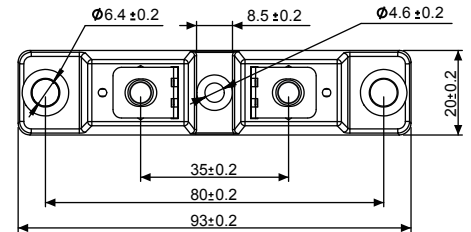
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR200150CT(R)	150V	105V	150V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	200A	$T_C = 125^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg) NOTE (1)	V_F	0.88V	$I_{FM} = 100A; T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	I_R	3mA 10mA 50mA	$T_J = 25^\circ C$ $T_J = 100^\circ C$ $T_J = 150^\circ C$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.40°C/W	
Mounting torque		3 ± 0.5Nm 3 ± 0.5Nm	To heatsink To terminals



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



Figure .1- Typical Forward Characteristics

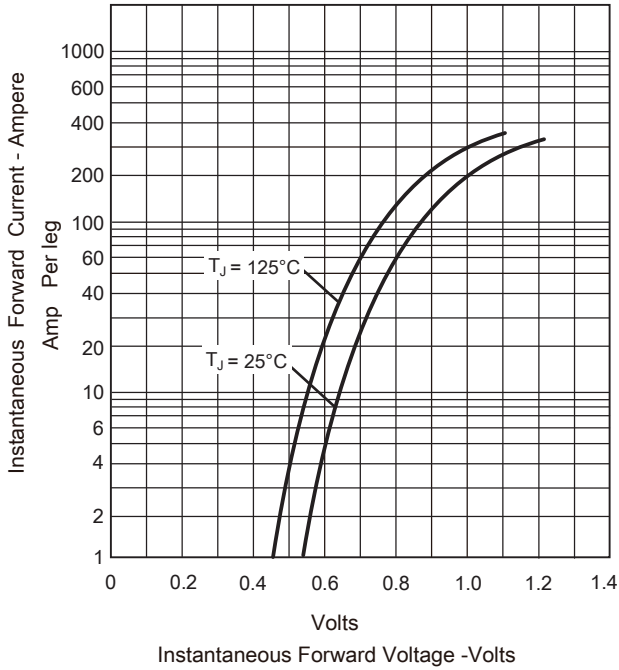


Figure .2-Forward Derating Curve

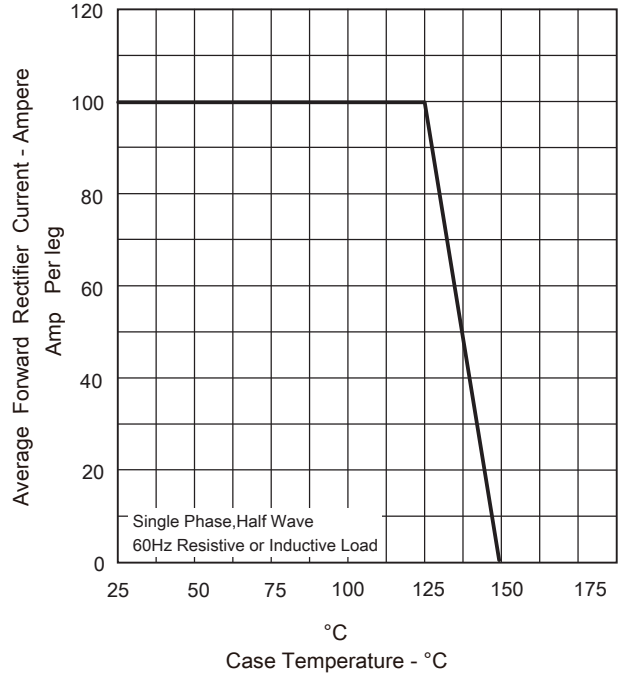


Figure .3- Peak Forward Surge Current

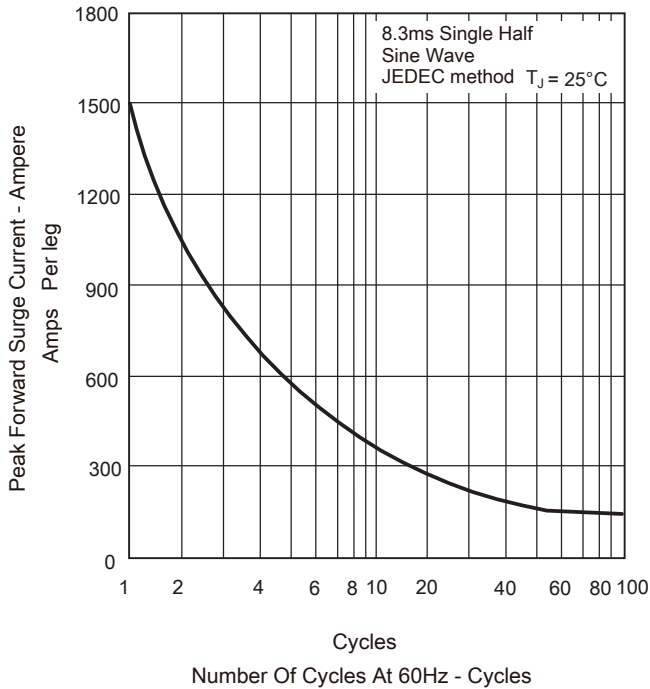


Figure .4-Typical Reverse Characteristics

