



SCHOTTKY DIODE MODULE TYPE
400A / 150V

Features

High Surge Capability
Type 150V V_{RRM}

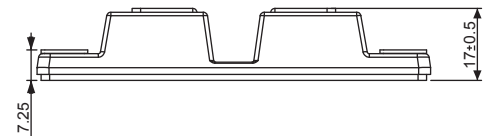
Maximum Ratings

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



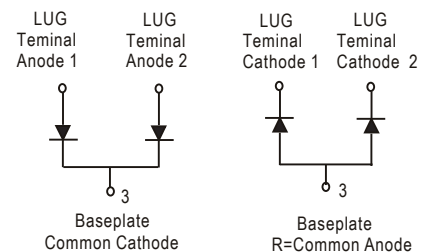
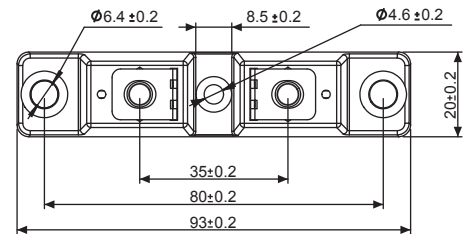
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRQ402150CT(R)	150V	105V	150V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	$T_C=125^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	3400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1) (Per leg)	V_F	0.74V 0.85V	$I_{FM}=200A; T_J=125^\circ C$ $I_{FM}=200A; T_J=25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage NOTE (1) (Per leg)	I_R	4mA 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)	$R_{\theta jc}$	0.35°C/W	
Mounting torque		4 ± 0.5Nm 4 ± 0.5Nm	To heatsink To terminals



NOTE :

(1) Pulse Test: Pulse Width 300 μ sec. Duty Cycle < 2%



Figure.1 - Typical Forward Characteristics

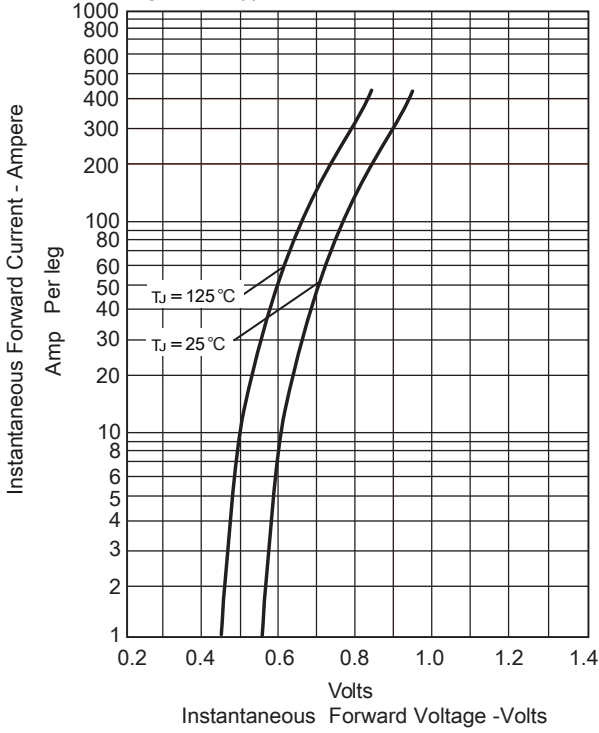


Figure.2 - Forward Derating Curve

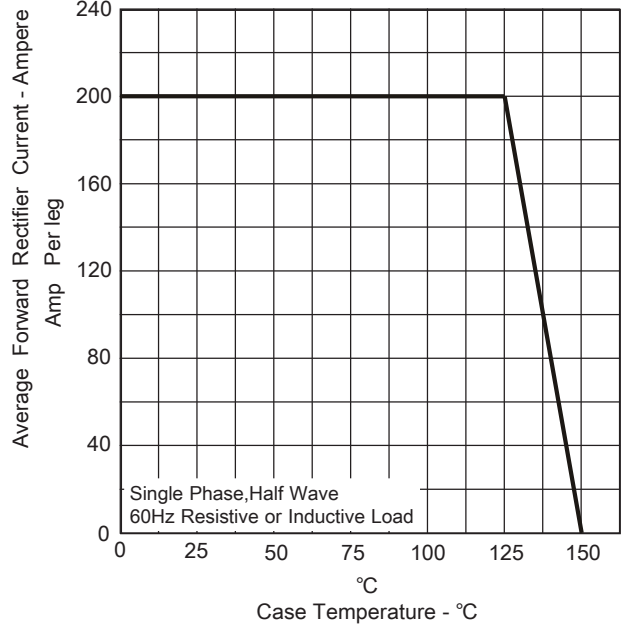


Figure.3 - Peak Forward Surge Current

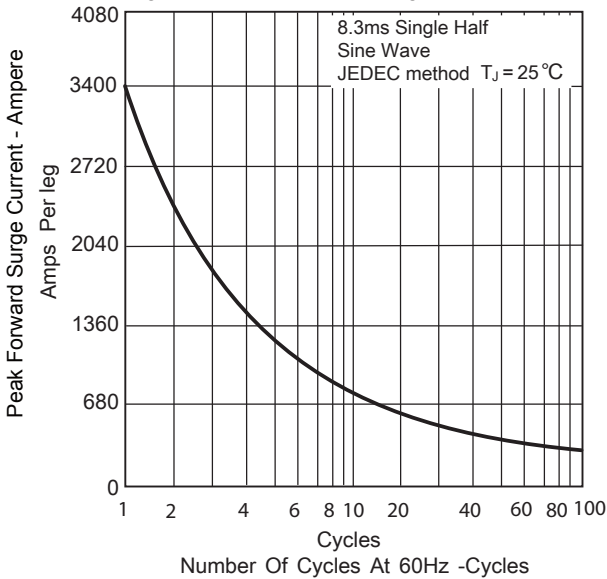
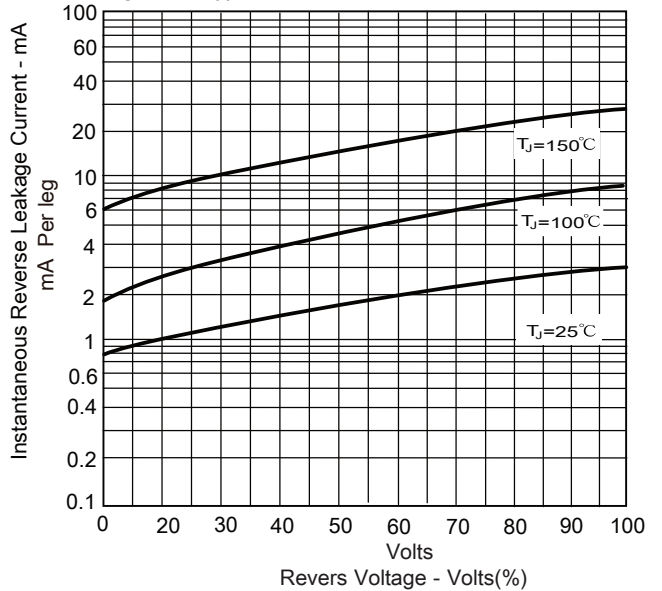


Figure.4 - Typical Reverse Characteristics





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