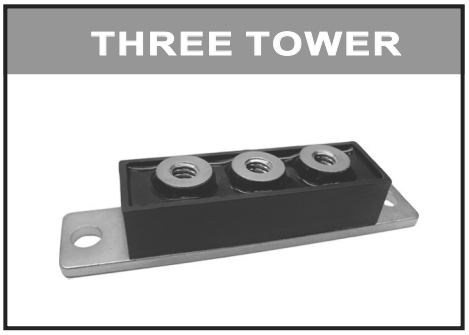
DACO SEMICONDUCTOR CO.,LTD.

MBRT12080(R) THRU MBRT120100(R)

SCHOTTKY DIODE MODULE TYPES
120A / 80V-100V

Features

- High Surge Capability
- Types Up to 100V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

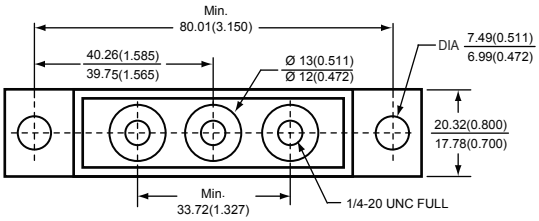


Maximum Ratings

Operating Temperature : -55℃ to+150 ℃
Storage Temperature : -55℃ to+150 ℃

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRT12080(R)	80V	56V	80V
MBRT12090(R)	90V	63V	90V
MBRT120100(R)	100V	70V	100V

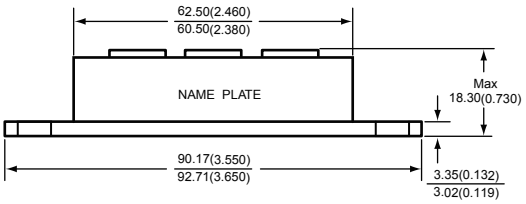
Dimensions in mm (1 mm = 0.0394")



Electrcal Characteristics @ 25℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	120A	T_C =125℃
Peak Forward Surge Current (Per diode)	I_{FSM}	800A	8.3ms,half sine
Maximum Instantaneous Forward Voltage (Per diode)	V_F	0.84V	I_{FM}=60A; T_J=25℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per diode)	I_R	1 mA 2 mA 6 mA	T_J = 25℃ T_J =125℃ T_J =150℃
Isolation Voltage	Viso	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	Rθjc	0.80℃/W	
Weight		103g	

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



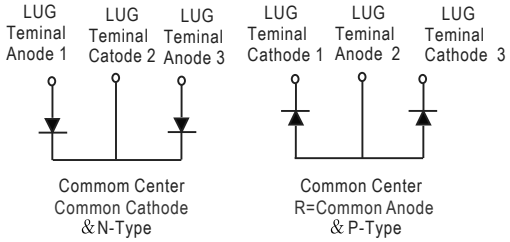


Figure .1- Typical Forward Characteristics

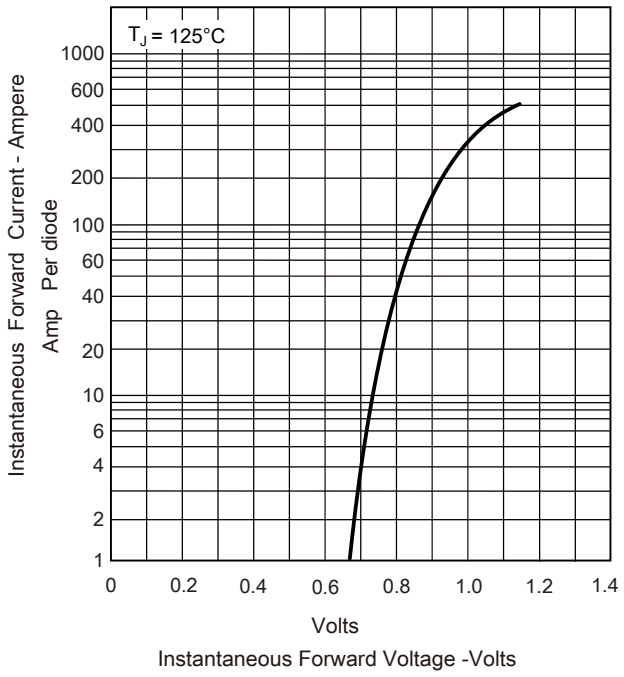


Figure .2-Forward Derating Curve

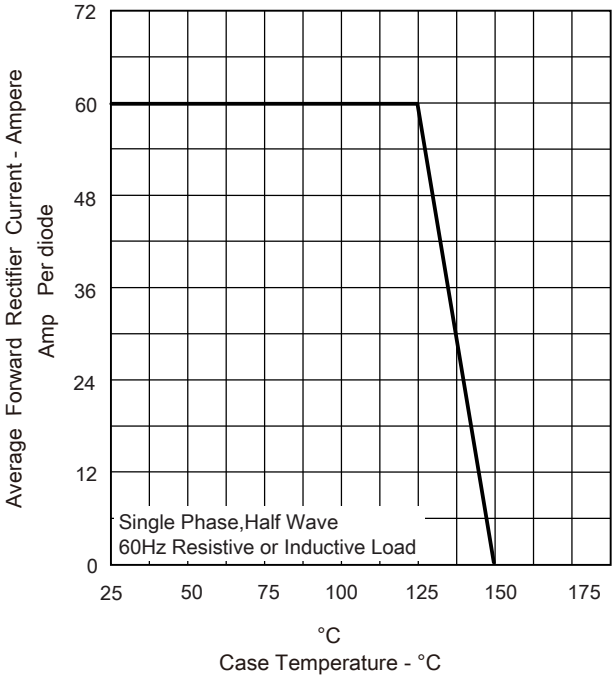


Figure .3- Peak Forward Surge Current

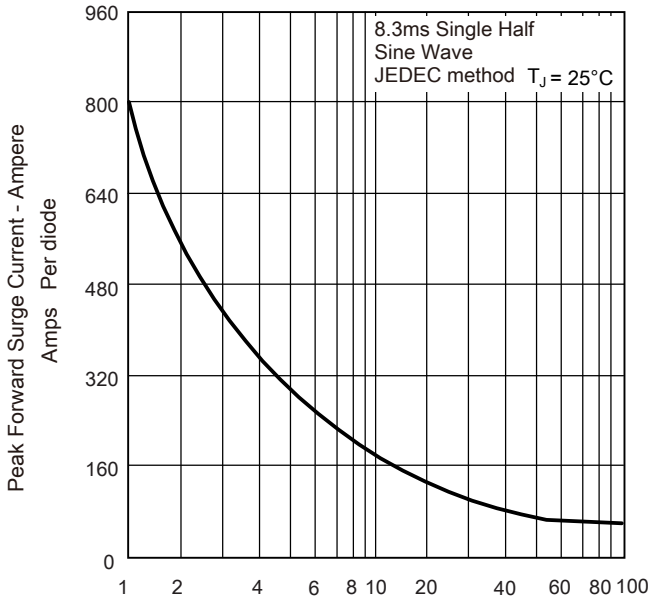
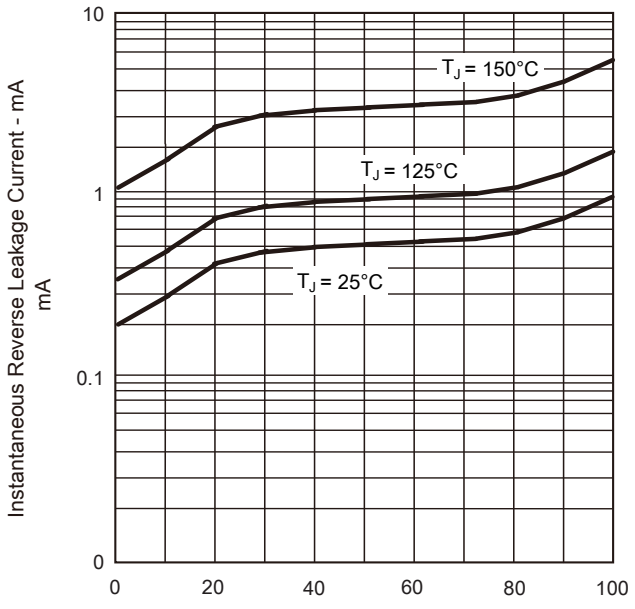


Figure .4 -Typical Reverse Characteristics



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