

**DACO SEMICONDUCTOR CO., LTD.**

**MBRT60080(R)  
THRU  
MBRT600100(R)**

## SCHOTTKY DIODE MODULE TYPES 600A / 80-100V

### Features

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

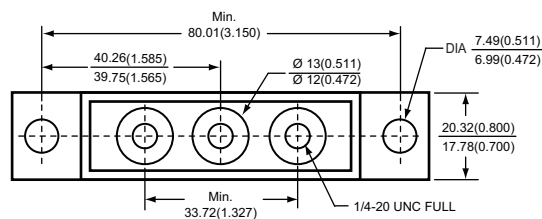
### Maximum Ratings

- 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
MBRT60080(R)	80V	56V	80V
MBRT60090(R)	90V	63V	90V
MBRT600100(R)	100V	70V	100V



Dimensions in mm (1 mm = 0.0394")



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	$T_C = 125^\circ\text{C}$
Peak Forward Surge Current (Per diode)	$I_{FSM}$	4000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per diode)	$V_F$	0.84V	$I_{FM} = 300\text{A}; T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per diode)	$I_R$	1 mA 8 mA 15 mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Isolation Voltage	$V_{iso}$	2500V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.28°C/W	
Weight		103g	

NOTE :

(1) Pulse Test: Pulse Width 300μsec, Duty < 2%

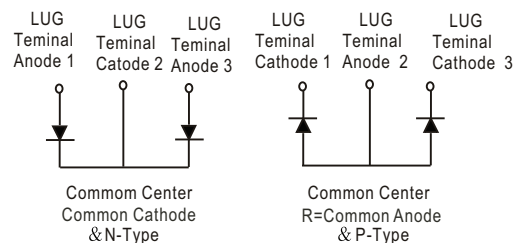
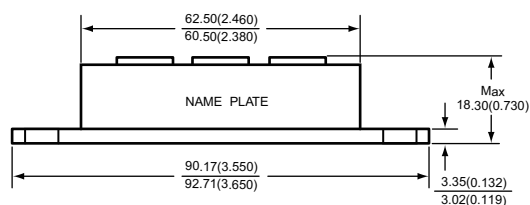




Figure .1- Typical Forward Characteristics

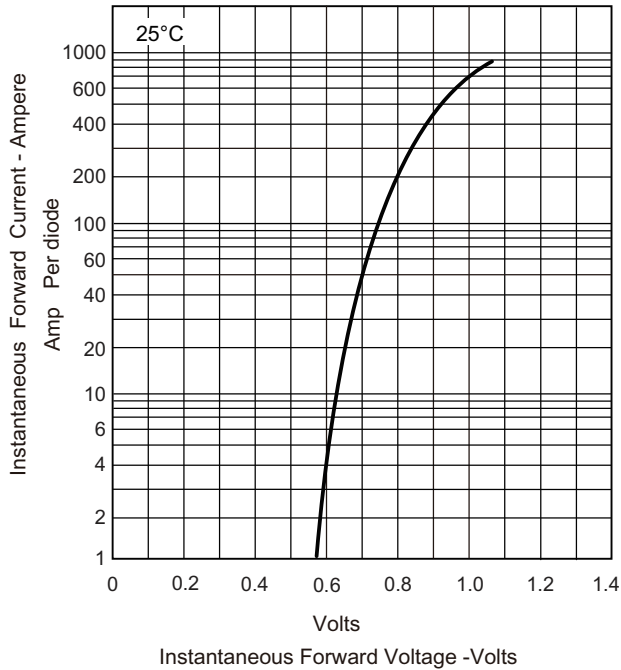


Figure .2-Forward Derating Curve

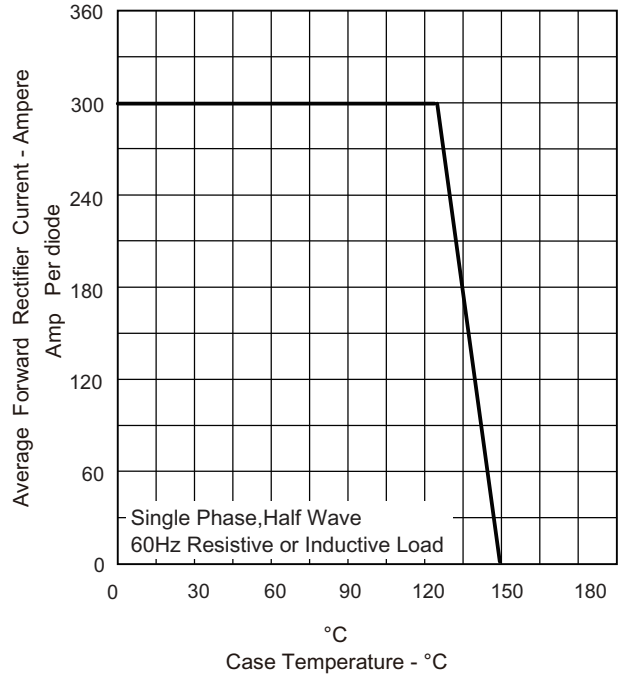


Figure .3-Peak Forward Surge Current

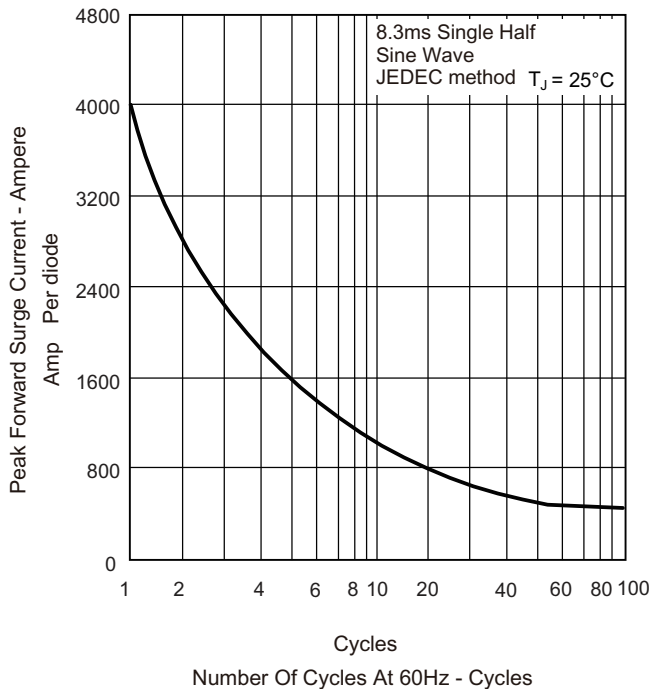
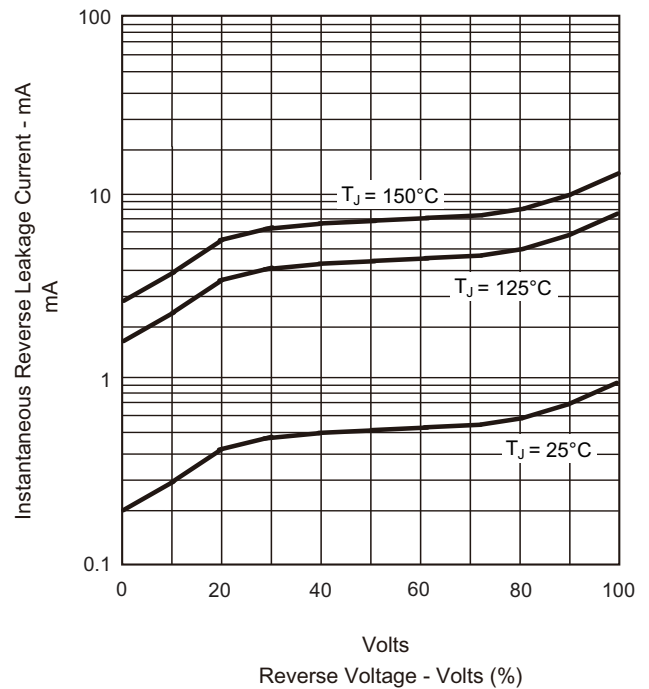


Figure .4-Typical Reverse Characteristics





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