



**SCHOTTKY DIODE MODULE TYPE  
600A / 80V**

**Features**

- High Surge Capability
- Type 80V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation base plate

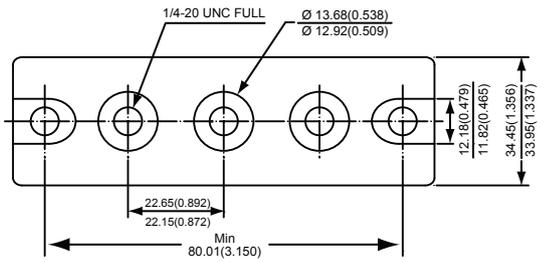
**Maximum Ratings**

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



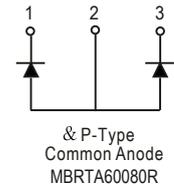
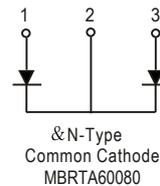
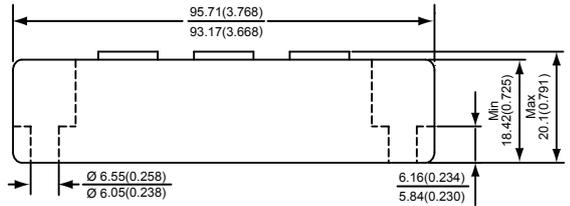
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRTA60080(R)	80V	56V	80V

Dimensions in mm (1 mm = 0.0394")



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	$T_C = 100^\circ C$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	4000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage* (Per leg)	$V_F$	0.82V	$I_{FM}=300A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per leg)	$I_R$	1mA 10mA 50mA	$T_J = 25^\circ C$ $T_J = 100^\circ C$ $T_J = 150^\circ C$
Isolation Voltage	$V_{iso}$	3000V	A.C. 1 minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.28°C/W	



\*Pulse Test: Pulse Width 300  $\mu$ sec, Duty Cycle 2%



Figure .1- Typical Forward Characteristics

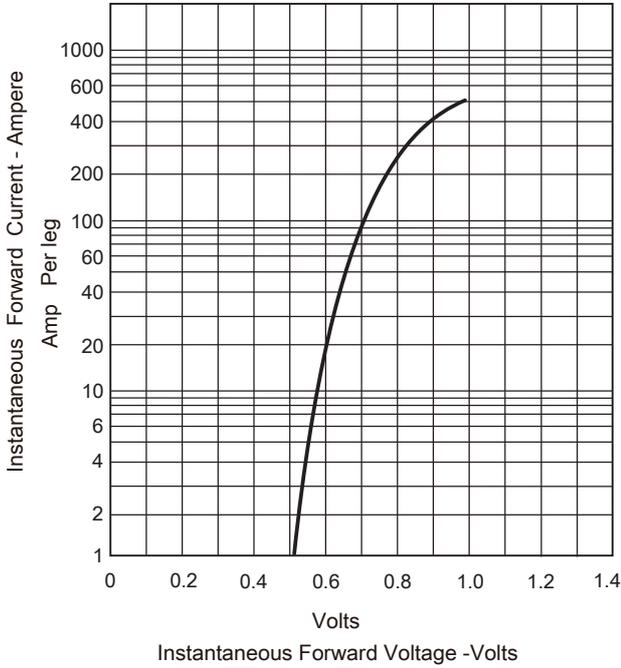


Figure .2-Forward Derating Curve

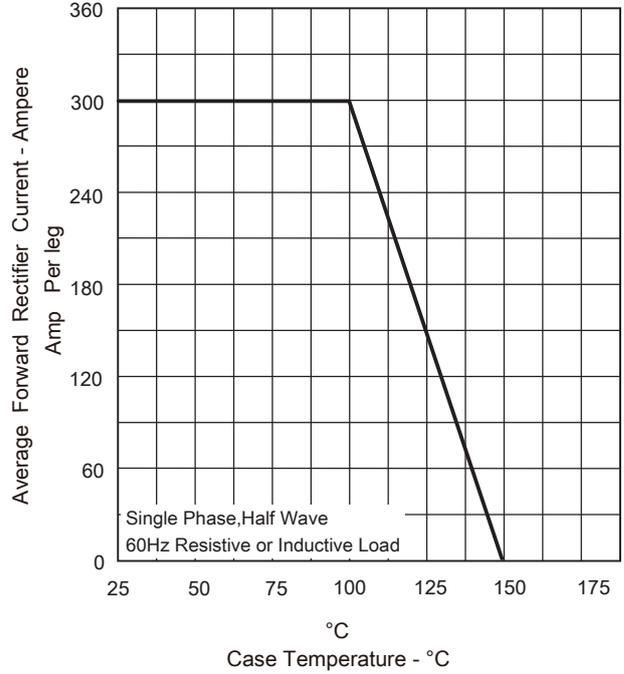


Figure .3- Peak Forward Surge Current

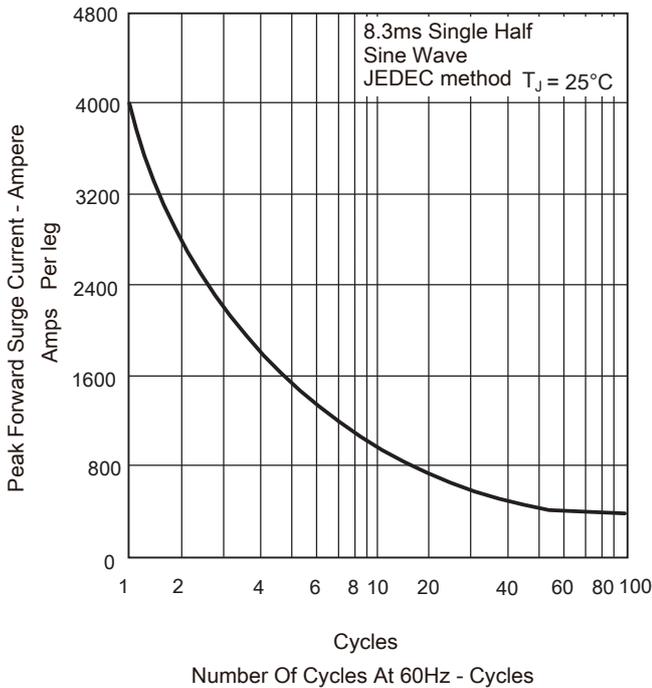
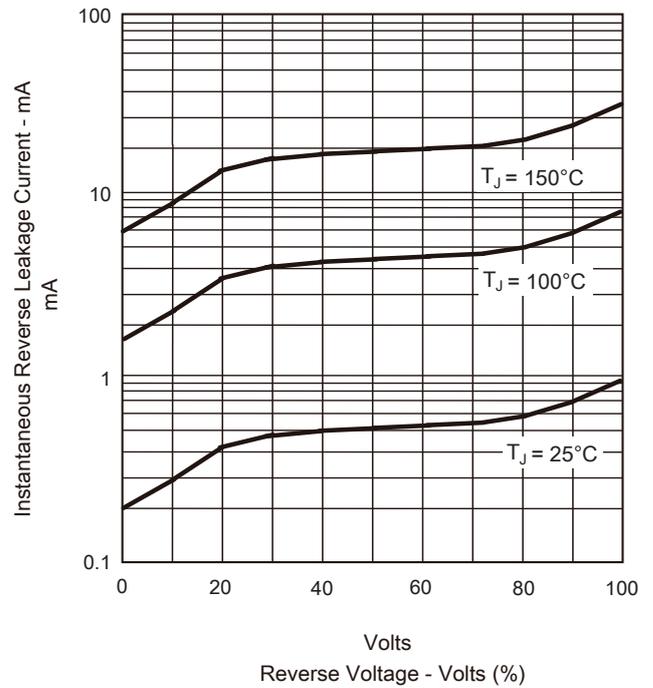


Figure .4-Typical Reverse Characteristics





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