



**LOW VF SCHOTTKY DIODE MODULE TYPE  
400A / 45V**

**Features**

- High Surge Capability
- Type 45V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation Base Plate

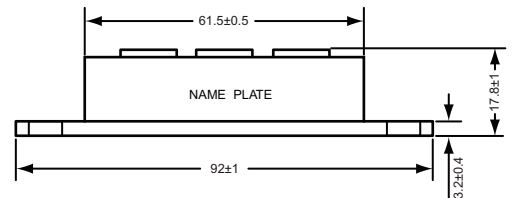
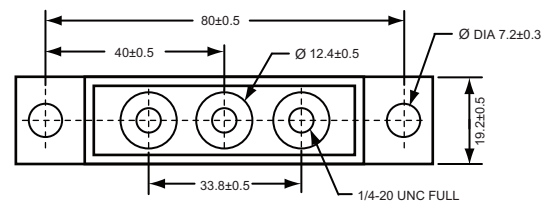
**Maximum Ratings**

- Junction Operating Temperature :  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$
- Storage Temperature :  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$



Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRT40045DL	45V	32V	45V

Dimensions in mm (1 mm = 0.0394")



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

Average Forward Current (Per pkg) (Per diode)	$I_{F(AV)}$	400A 200A	$T_C = 100^{\circ}\text{C}$
Peak Forward Surge Current (Per diode)	$I_{FSM}$	3000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage* (Per diode)	$V_F$	0.58V	$I_{FM}=200A; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	$I_R$	5mA 350mA	$T_J = 25^{\circ}\text{C}$ $T_J = 100^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.35°C/W	
Isolation Voltage	Viso	2500V	A.C. 1 minute
Weight		103g	



MBRT40045DL

\*Pulse Test: Pulse Width 300  $\mu\text{sec}$ , Duty Cycle < 2%



Figure .1-Typical Forward Characteristics

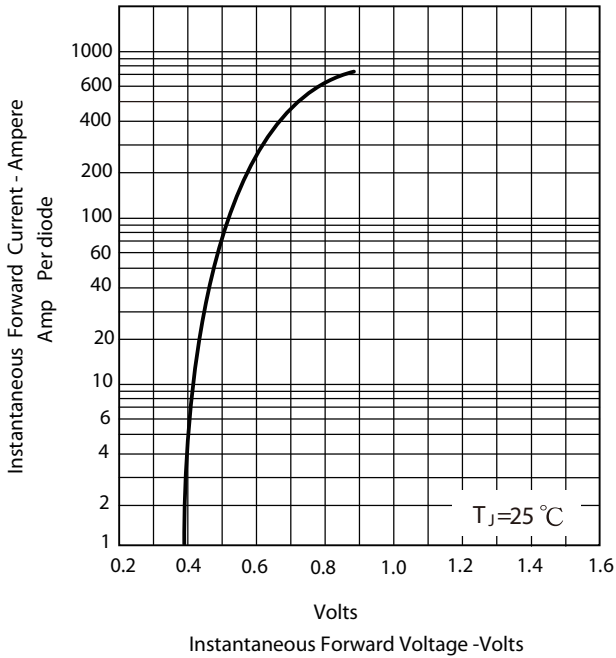


Figure .2-Forward Derating Curve

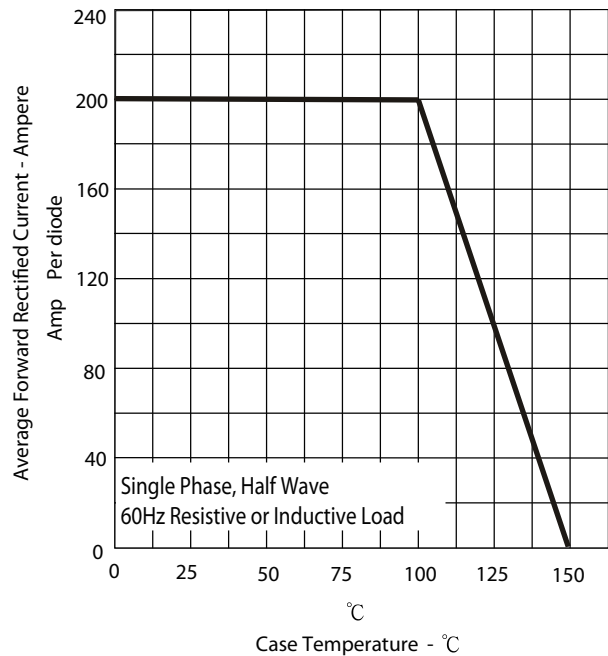


Figure.3- Peak Forward Surge Current

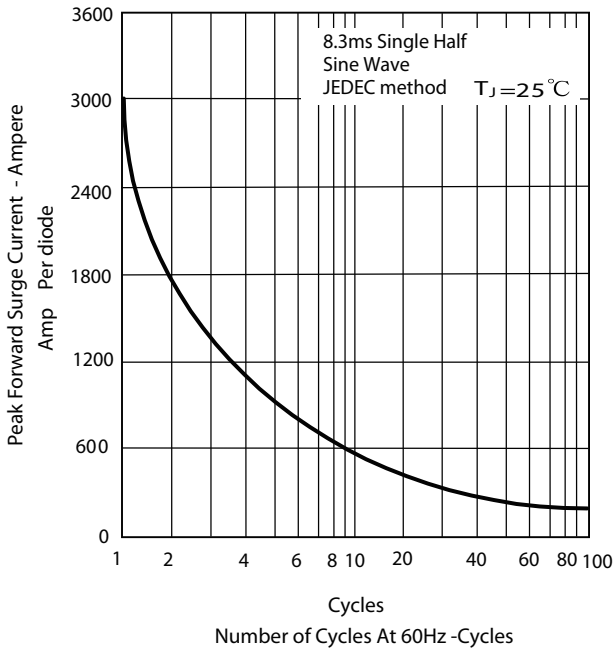
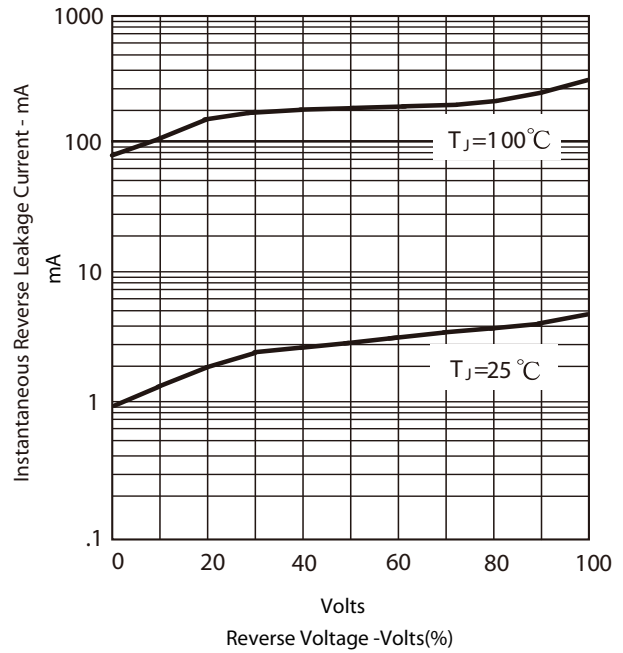


Figure.4- Typical Reverse Characteristics





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