



**SCHOTTKY DIODE MODULE TYPES 600A**

**Features**

High surge Capability  
Types Up to 100V VRRM

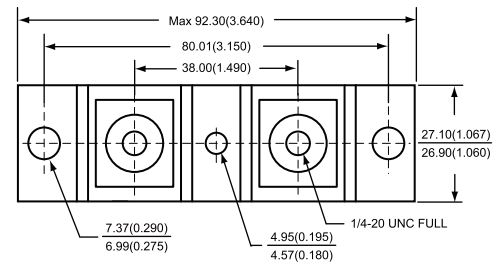


**Maximum Ratings**

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

Dimensions in mm (1 mm = 0.0394")

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRA60020CT(R)	20V	14V	20V
MBRA60030CT(R)	30V	21V	30V
MBRA60035CT(R)	35V	25V	35V
MBRA60040CT(R)	40V	28V	40V
MBRA60045CT(R)	45V	32V	45V
MBRA60060CT(R)	60V	42V	60V
MBRA60080CT(R)	80V	56V	80V
MBRA600100CT(R)	100V	70V	100V



**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) 20V~45V 50V~60V 80V~100V	$V_F$	0.70V 0.75V 0.84V	$I_{FM}=300A; T_J=25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	$I_R$	1 mA 10 mA 50 mA	$T_J = 25^\circ C$ $T_J = 100^\circ C$ $T_J = 150^\circ C$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.28°C/W	

NOTE :

(1) Pulse Test: Pulse Width 300  $\mu$  sec, Duty < 2%

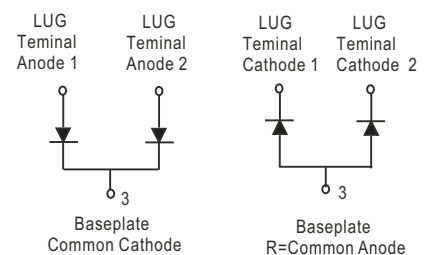
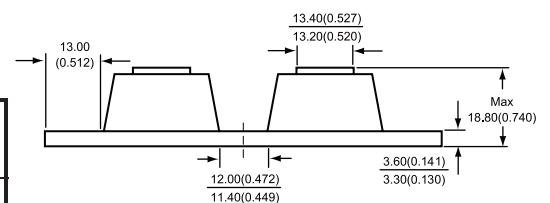




Figure.1-Typical Forward Characteristics

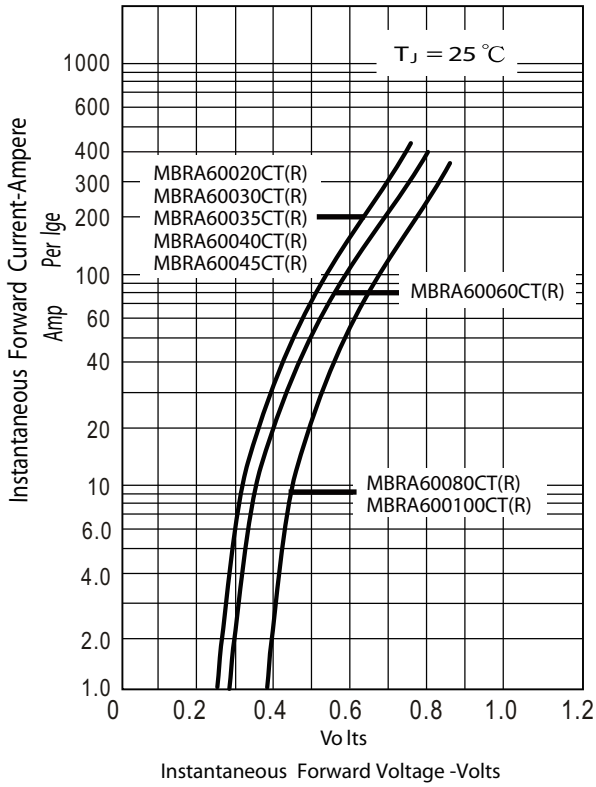


Figure.2-Forward Derating Curve

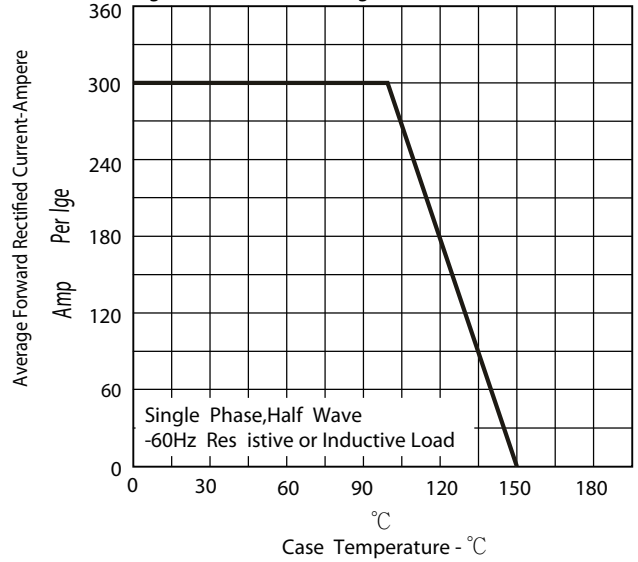


Figure.3-Peak Forward Surge Current

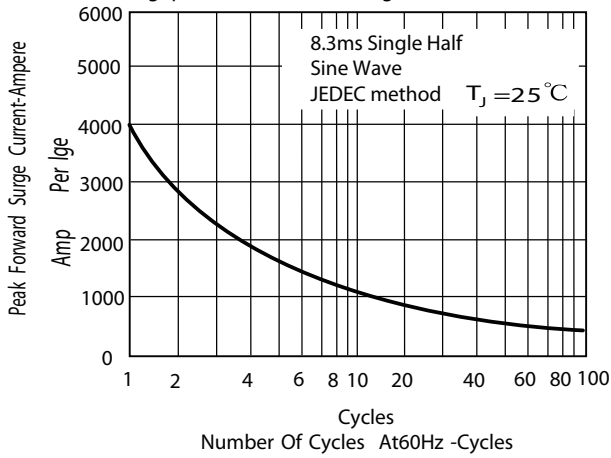


Figure.4-Typical Reverse Characteristics

