MBR1060,80,90,100

SCHOTTKY BARRIER RECTIFIER

TO-220A

1.CATHODE

2.ANODE

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters,Free Wheeling, and Polarity Protection Applications

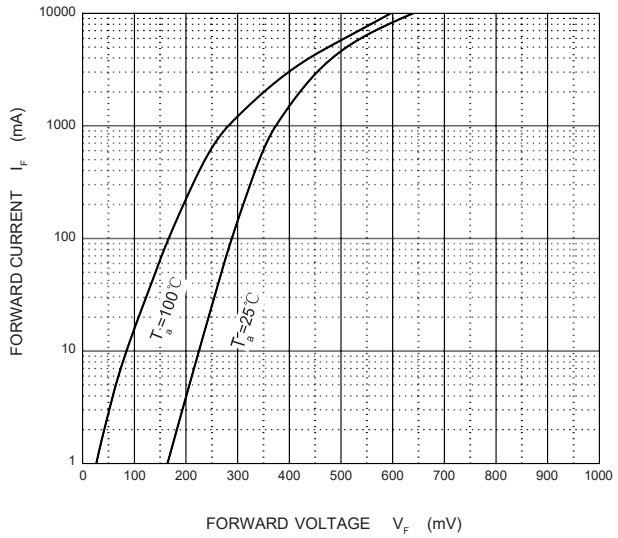
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value				Unit
		MBR1060	MBR1080	MBR1090	MBR10100	
V_{RRM}	Peak repetitive reverse voltage	60	80	90	100	V
V_{RWM}	Working peak reverse voltage					
V_R	DC blocking voltage					
$V_{R(RMS)}$	RMS reverse voltage	42	56	63	70	V
I_O	Average rectified output current	10				A
I_{FSM}	Non-Repetitive peak forward surge current 8.3ms half sine wave	150				A
P_D	Power dissipation	2				W
$R_{\Theta JA}$	Thermal resistance from junction to ambient	50				℃/W
T_j	Operating Junction Temperature Range	-40 ~ +125				℃
T_{stg}	Storage Temperature Range	-55 ~ +150				℃

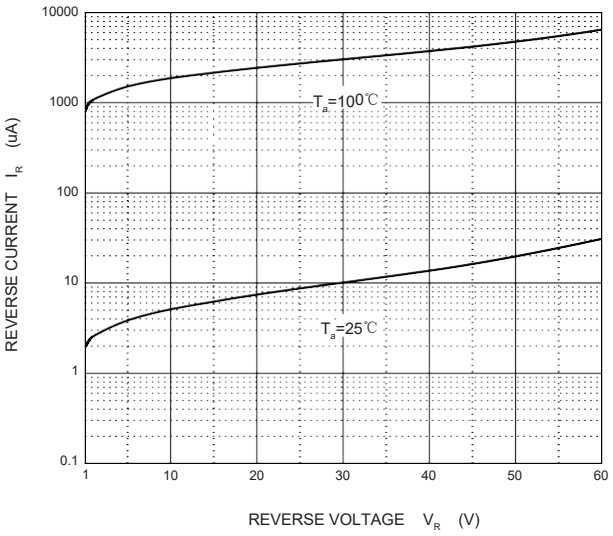
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Device	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	MBR1060	I_R=1mA	60			V
		MBR1080		80			
		MBR1090		90			
		MBR10100		100			
Reverse current	I_R	MBR1060	V_R=60V			0.1	mA
		MBR1080	V_R=80V				
		MBR1090	V_R=90V				
		MBR10100	V_R=100V				
Forward voltage	V_F	MBR1060	I_F=10A			0.8	V
		MBR1080-100				0.84	V

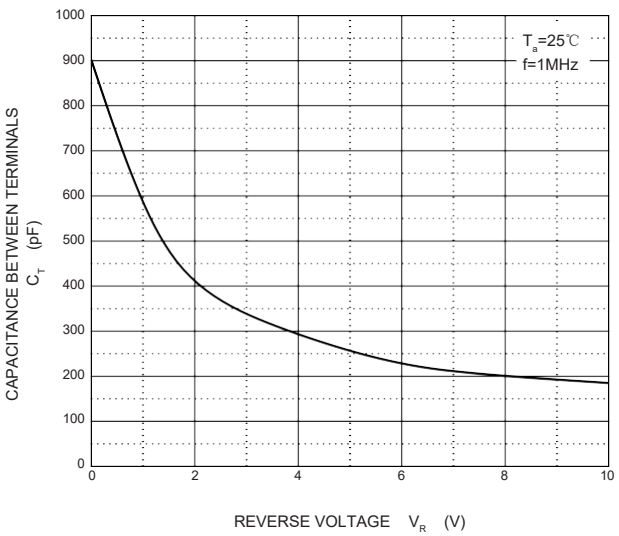
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve