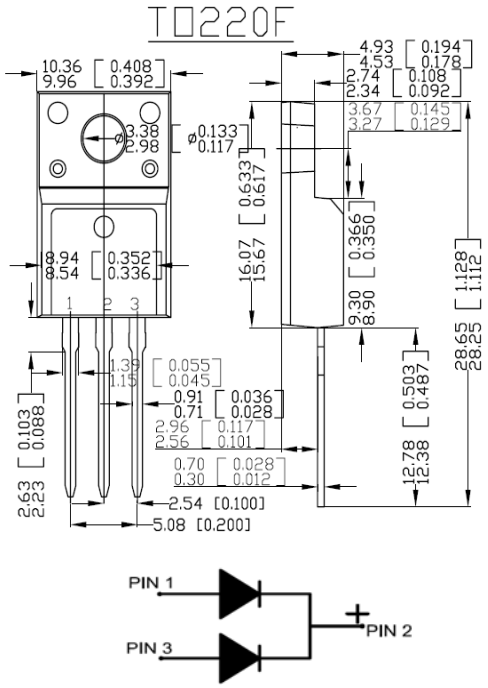
SHENZHEN HAOLIN ELECTRONICS TECHNOLOGY CO., LTD

TO- 220F SCHOTTKY BARRIER RECTIFIERS

MBR10200



Dimensions in millimeters and (inches)

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Effciency
- 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

ELECTRICAL CHARACTERISTICS (Tamb=25^{0}C)

Characteristic	Symbol	MBR10200	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Average Rectifide Output Current	I_C	10	A
Maximum Instaneous Forward Voltage			
@I_F =5A,Tc=25 ^{0}C	V_F	0.85	V
@I_F =5A,Tc=125 ^{0}C		0.80	
@I_F =10A,Tc=25 ^{0}C		0.95	
@I_F =10A,Tc=125 ^{0}C		0.85	
Peak Reverse Current @Tc=25 ^{0}C	I_R	30	uA
at Rated DC Blocking Voltage @Tc=125 ^{0}C		200	
Operating and Storage Temperature Range	T_j ,T_{stg}	-55 to +150	^{0}C

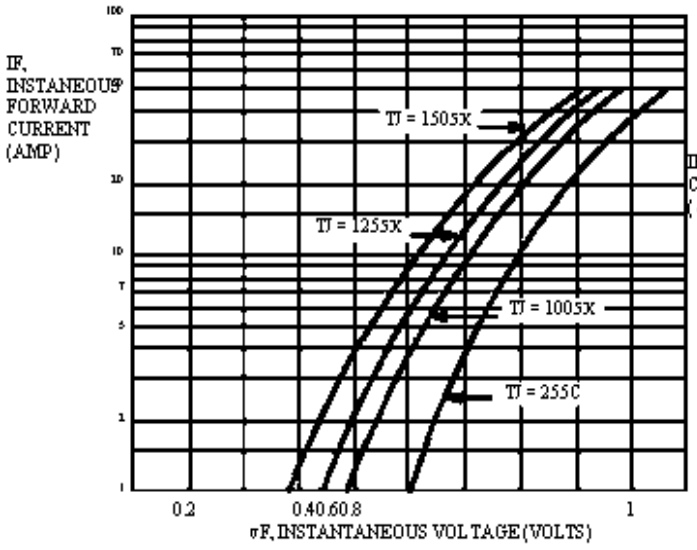


Figure 1. ypical Forward oltage (Per Leg)TV

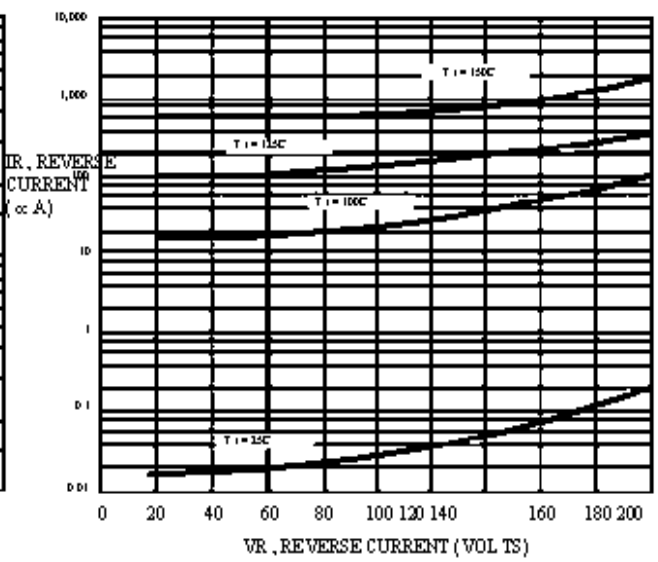


Figure 2. ypical Reverse Current (Per Leg)T

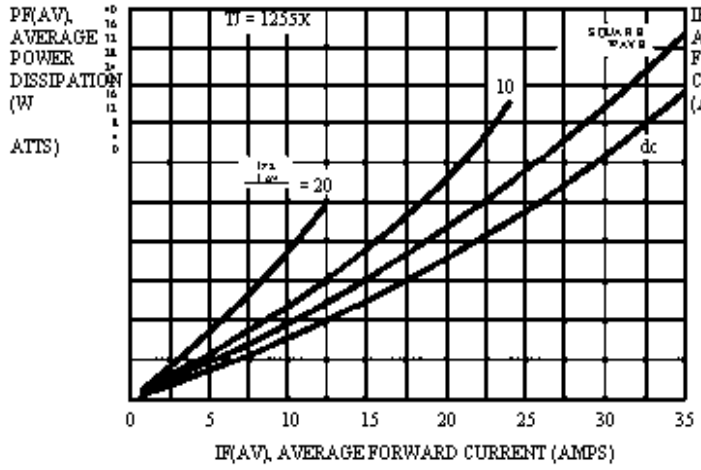


Figure 3. Forward Power Dissipation

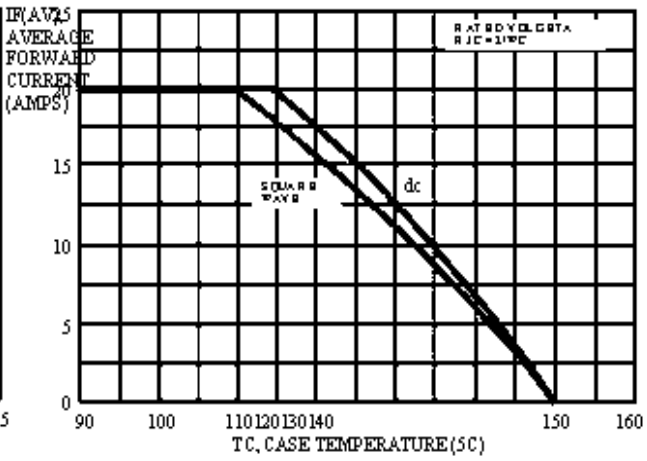


Figure 4. Current Derating, Case

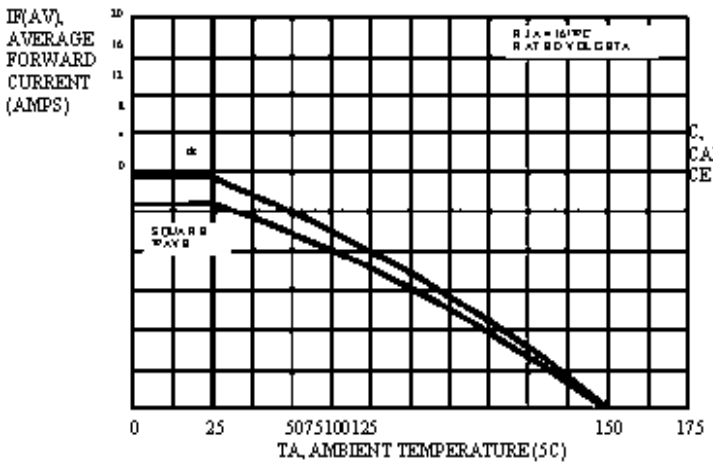


Figure 5. Current Derating, Ambient

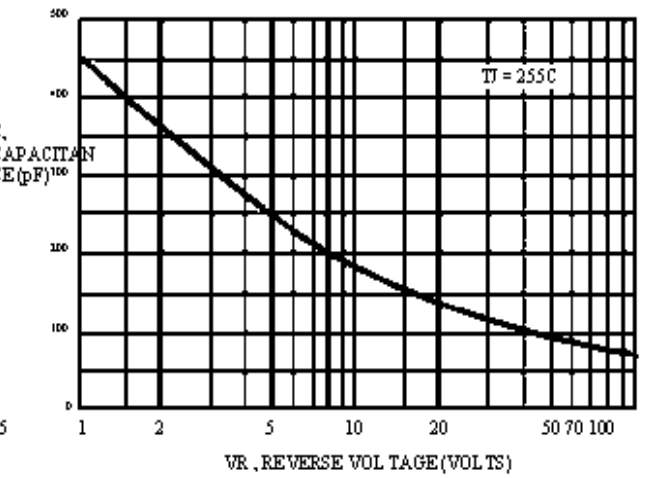


Figure 6. ypical Capacitance (Per Leg)T