

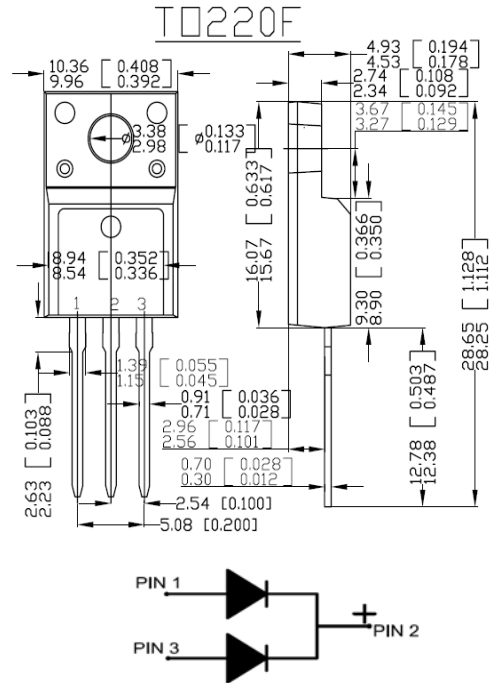


**TO- 220F SCHOTTKY BARRIER RECTIFIERS**

**MBR10150**

**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



Dimensions in millimeters and (inches)

**ELECTRICAL CHARACTERISTICS (Tamb=25°C)**

Characteristic	Symbol	MBR10150	Unit	
Peak Repetitive Reverse Voltage	$V_{RRM}$	150	V	
Working Peak Reverse Voltage	$V_{RWM}$			
DC Blocking Voltage	$V_R$			
Average Rectified Output Current	$I_C$	10	A	
Maximum Instantaneous Forward Voltage	$V_F$	@ $I_F=5A, T_c=25^\circ C$	0.85	V
		@ $I_F=5A, T_c=125^\circ C$	0.80	
		@ $I_F=10A, T_c=25^\circ C$	0.95	
		@ $I_F=10A, T_c=125^\circ C$	0.85	
Peak Reverse Current @ $T_c=25^\circ C$ at Rated DC Blocking Voltage @ $T_c=125^\circ C$	$I_R$	10 200	$\mu A$	
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 to +150	$^\circ C$	

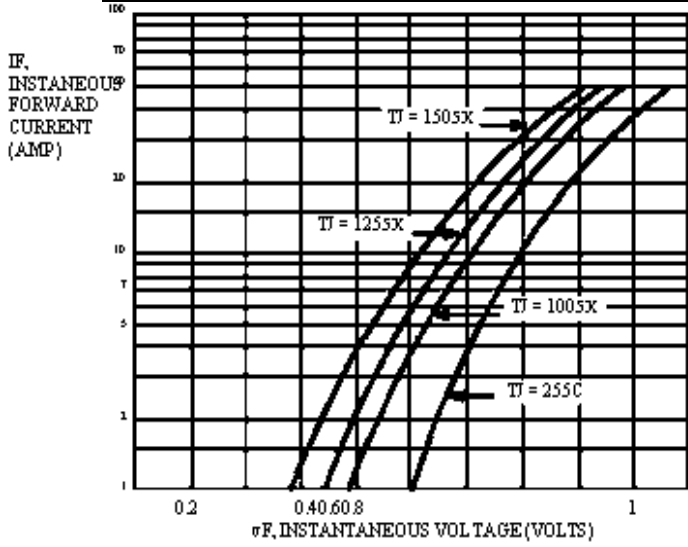


Figure 1. Typical Forward Voltage (Per Leg) vs. Instantaneous Forward Current

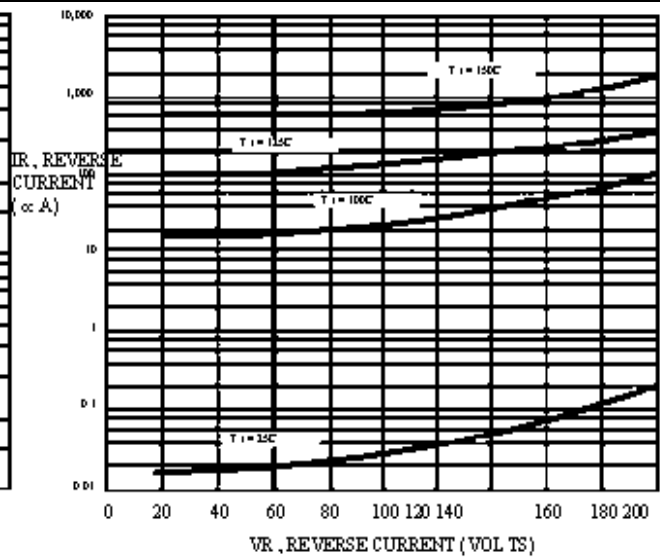


Figure 2. Typical Reverse Current (Per Leg) vs. Reverse Voltage

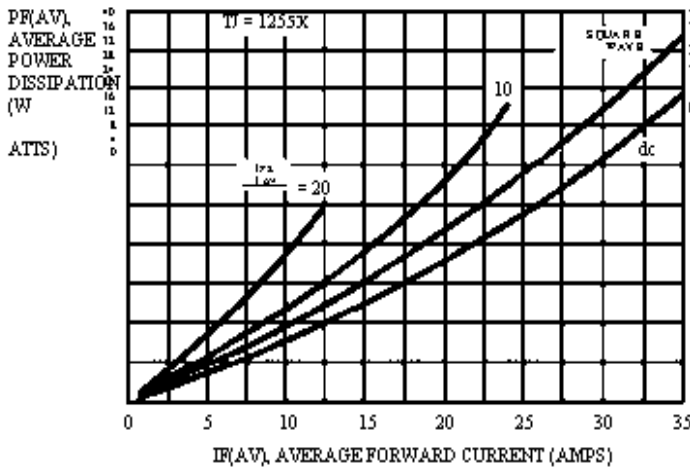


Figure 3. Forward Power Dissipation vs. Average Forward Current

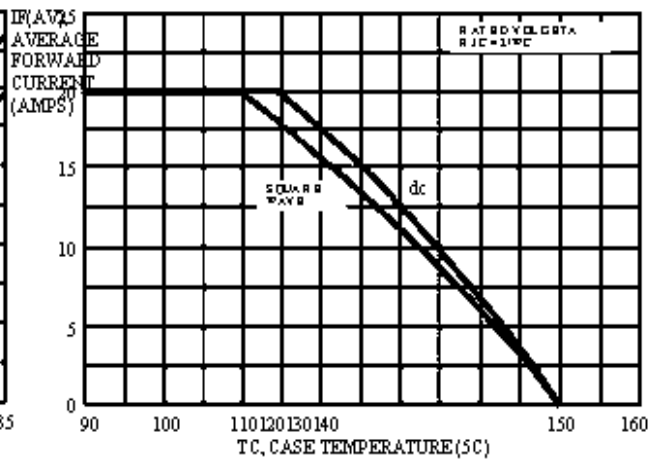


Figure 4. Current Derating, Case vs. Case Temperature

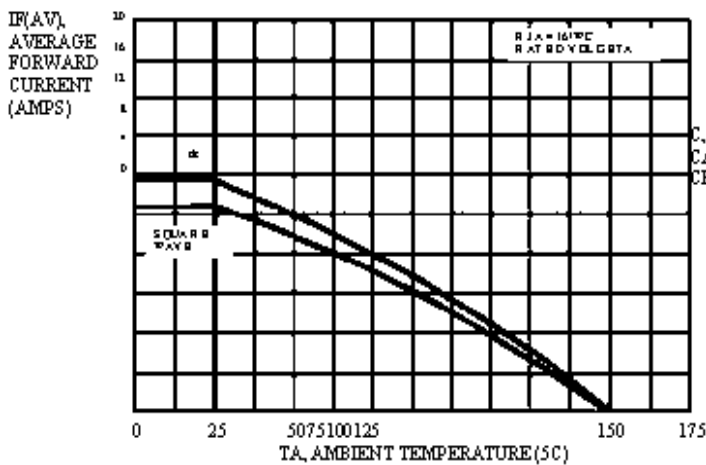


Figure 5. Current Derating, Ambient vs. Ambient Temperature

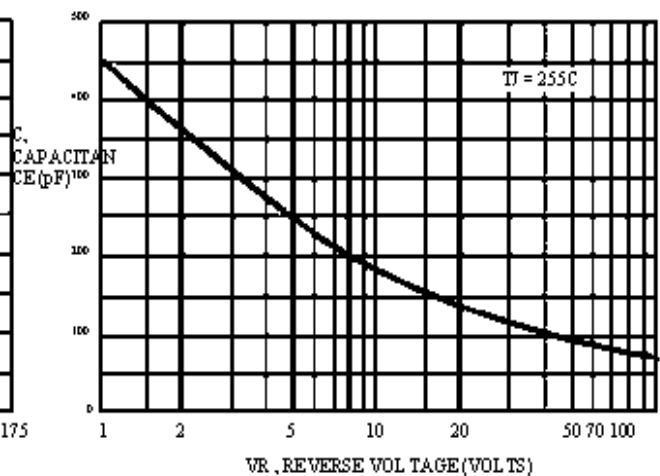


Figure 6. Typical Capacitance (Per Leg) vs. Reverse Voltage