

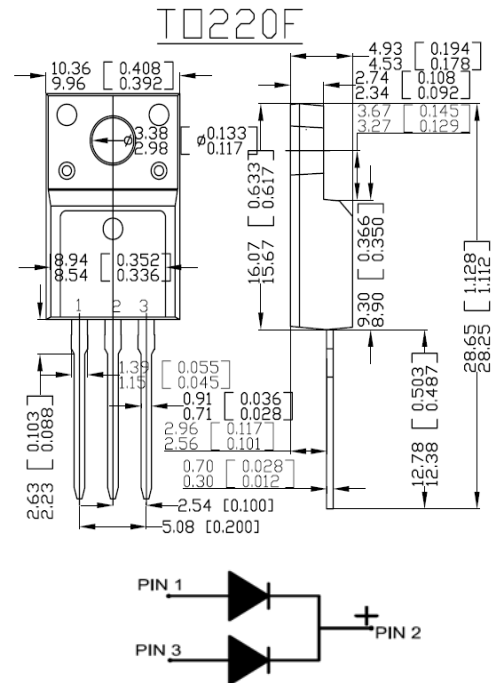


TO-220F SCHOTTKY BARRIER RECTIFIERS

MBR10150CT

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 (T_{amb}=25°C)

Characteristic	Symbol	MBR10150CT	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 @ I _F = 10A, T _C = 25 °C @ I _F = 10A, T _C = 125 °C @ I _F = 20A, T _C = 25 °C @ I _F = 20A, T _C = 125 °C	V _F	0.85 0.80 0.95 0.85	V
Peak Reverse Current @ T _C = 25 °C at Rated DC Blocking Voltage @ T _C = 125 °C	I _R	10 200	uA
Operating and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C

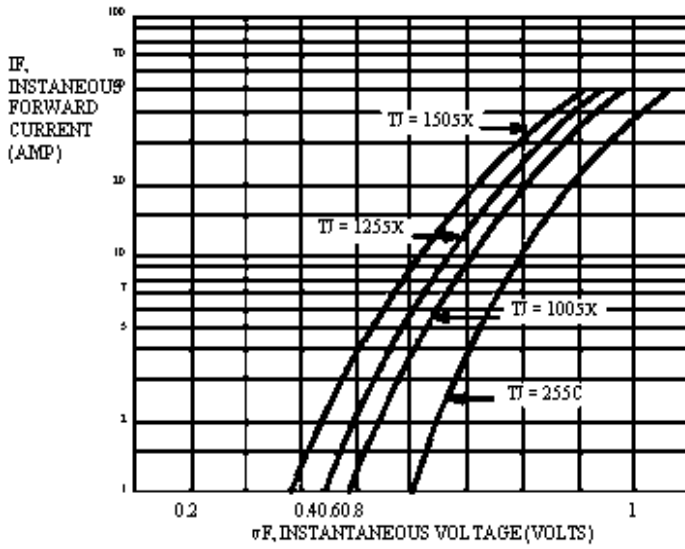


Figure 1. Typical Forward Voltage (Per Leg) vs. T_J

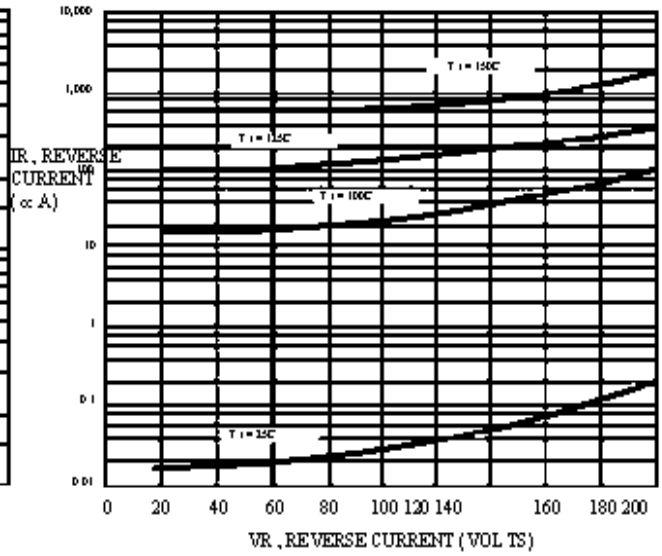


Figure 2. Typical Reverse Current (Per Leg) vs. T

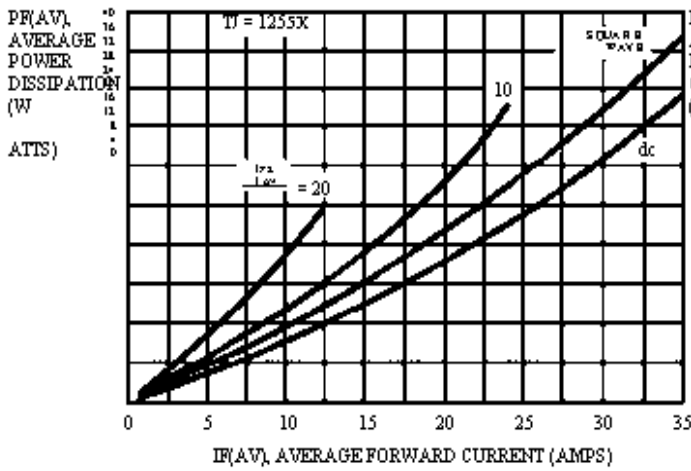


Figure 3. Forward Power Dissipation

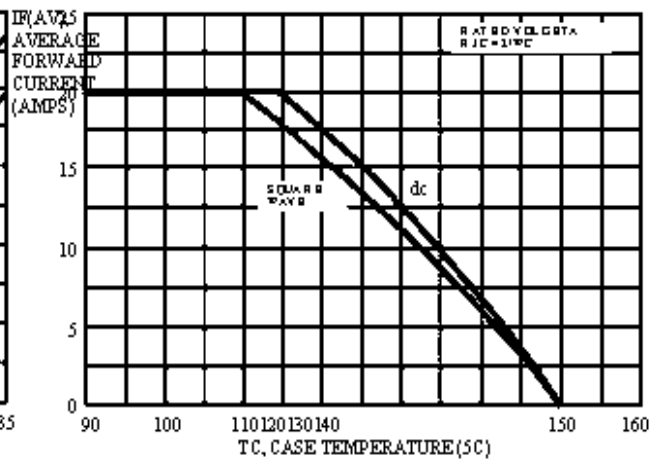


Figure 4. Current Derating, Case

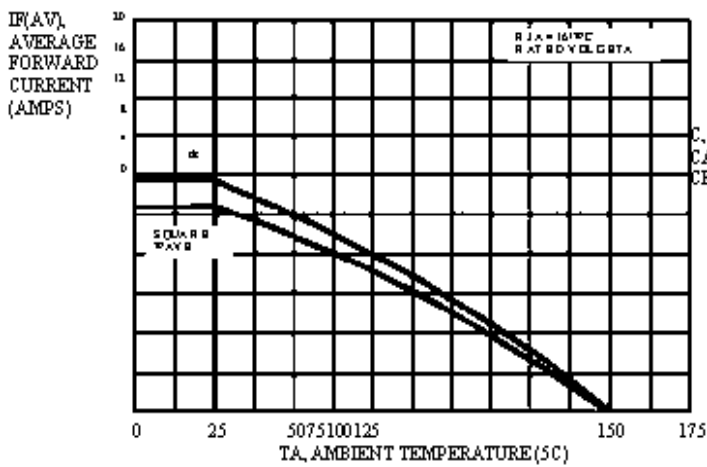


Figure 5. Current Derating, Ambient

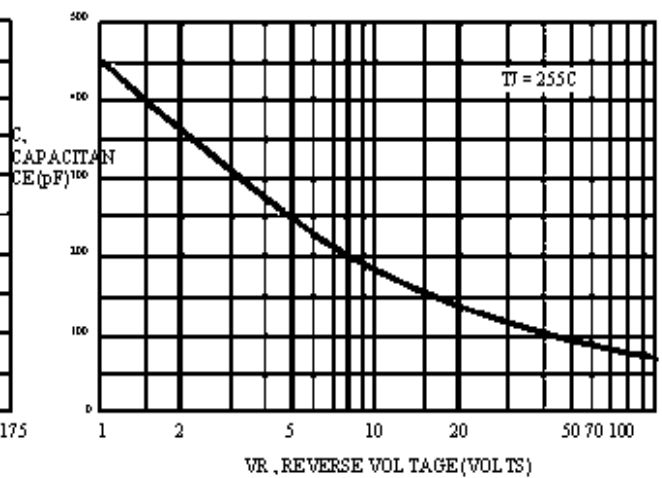


Figure 6. Typical Capacitance (Per Leg) vs. T_J