

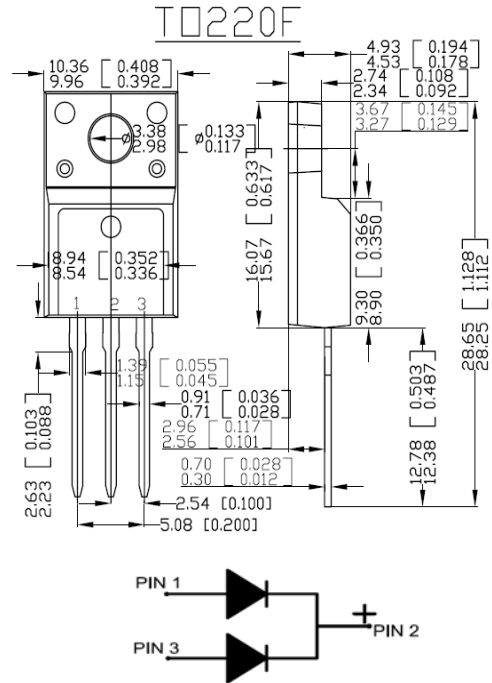


TO- 220F SCHOTTKY BARRIER RECTIFIERS

MBR10100CT

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	MBR10100CT	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	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		V
@ $I_F = 10A, T_c = 25^\circ C$		0.80	
@ $I_F = 10A, T_c = 125^\circ C$		0.65	
@ $I_F = 20A, T_c = 25^\circ C$		0.85	
@ $I_F = 20A, T_c = 125^\circ C$		0.75	
Peak Reverse Current @ $T_c = 25^\circ C$	I_R	10	uA
at Rated DC Blocking Voltage @ $T_c = 125^\circ C$		100	
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	°C

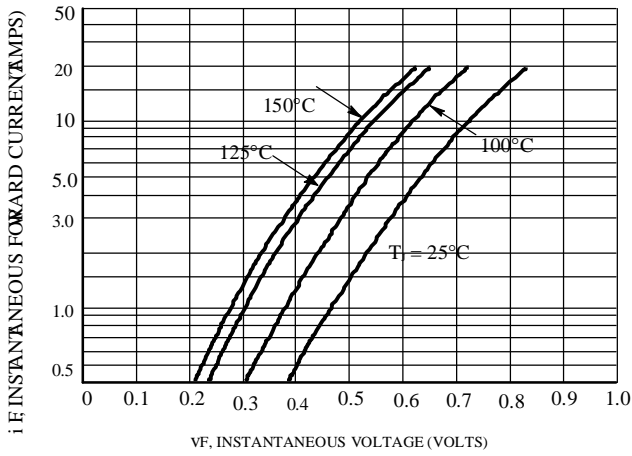


Figure 1. Typical Forward Voltage

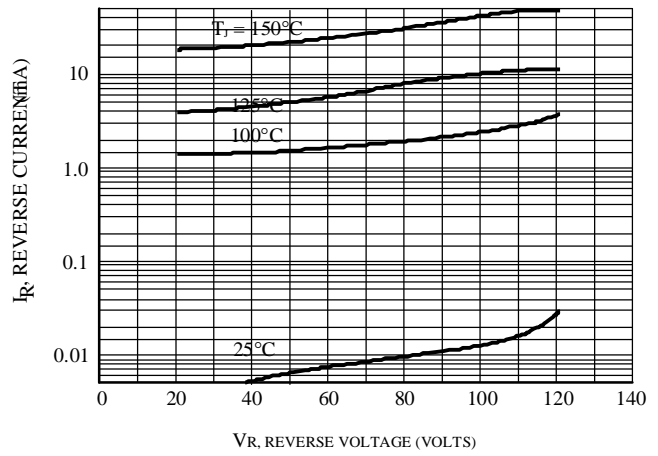


Figure 2. Typical Reverse Current

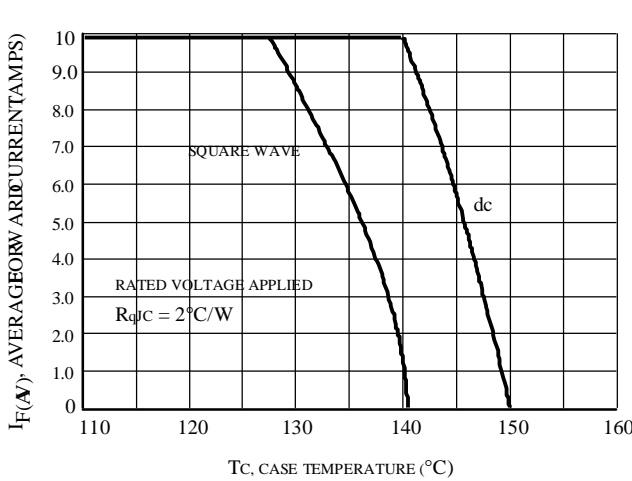


Figure 3. Current Derating, Case

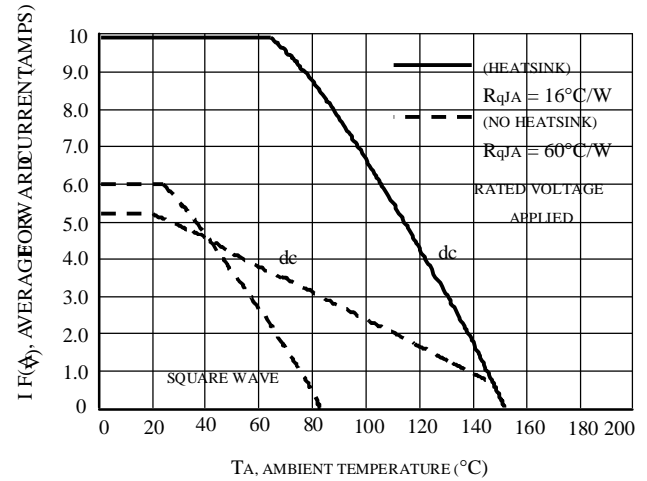


Figure 4. Current Derating, Ambient

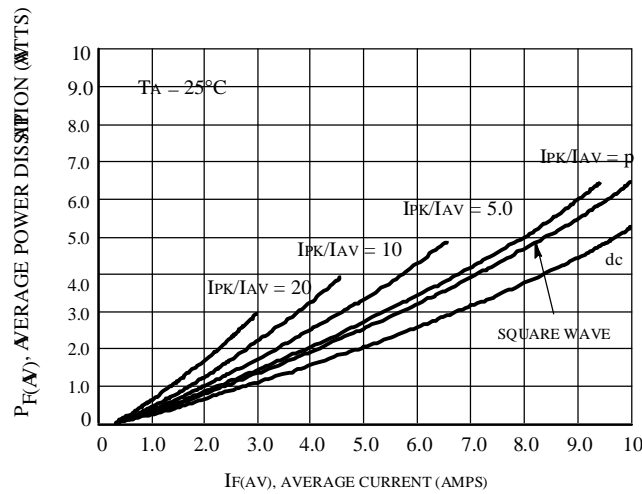


Figure 5. Forward Power Dissipation

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