

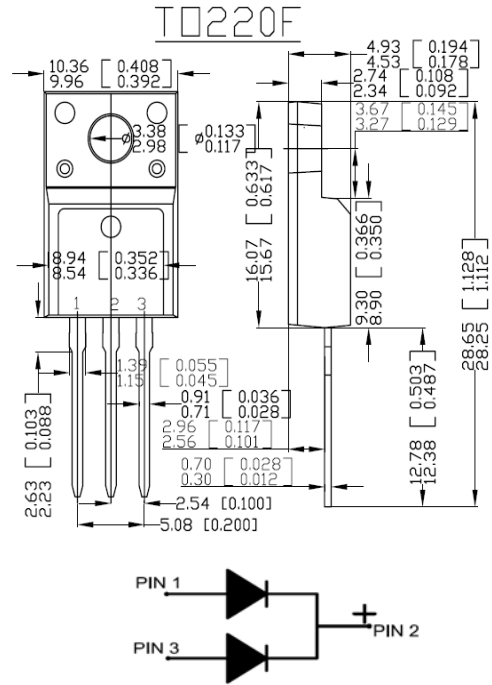


**TO- 220F SCHOTTKY BARRIER RECTIFIERS**

**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	$V_F$	@ $I_F = 10A, T_c = 25^\circ C$	V
		@ $I_F = 10A, T_c = 125^\circ C$	
		@ $I_F = 20A, T_c = 25^\circ C$	
		@ $I_F = 20A, T_c = 125^\circ C$	
Peak Reverse Current @ $T_c = 25^\circ C$ at Rated DC Blocking Voltage @ $T_c = 125^\circ C$	$I_R$	10	uA
		100	
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 to +150	°C

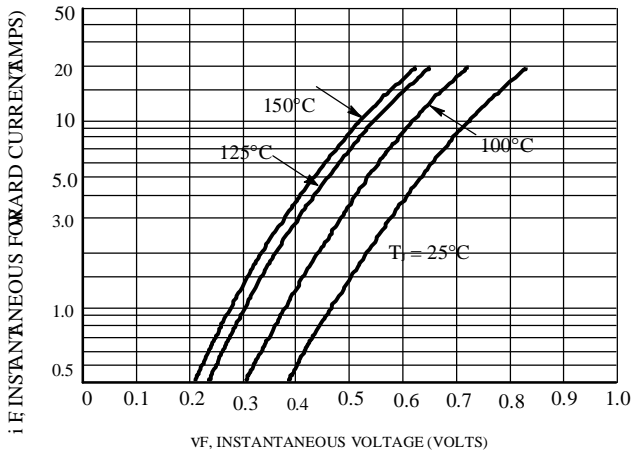


Figure 1. Typical Forward Voltage

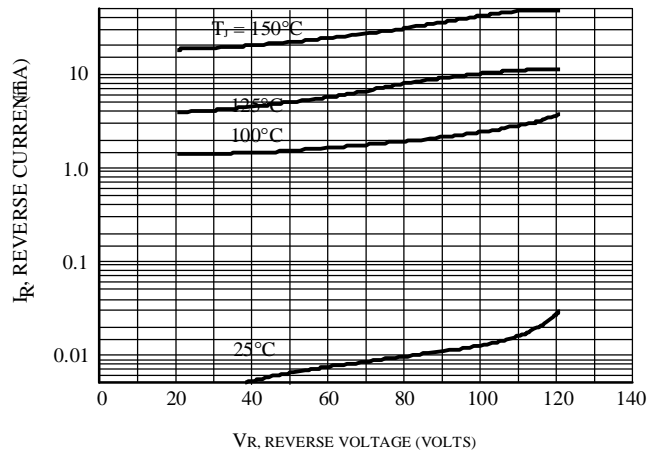


Figure 2. Typical Reverse Current

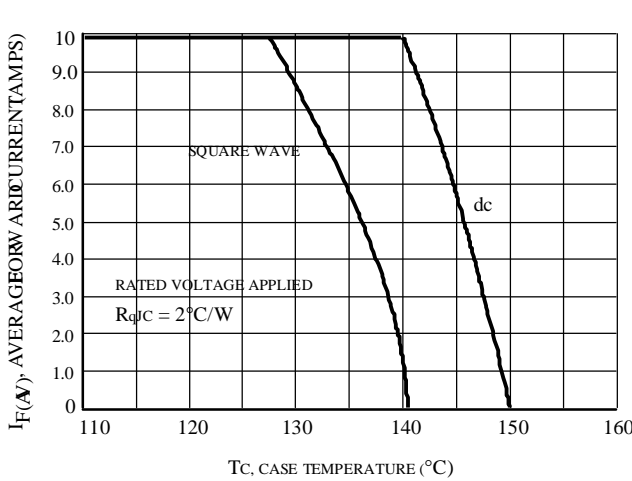


Figure 3. Current Derating, Case

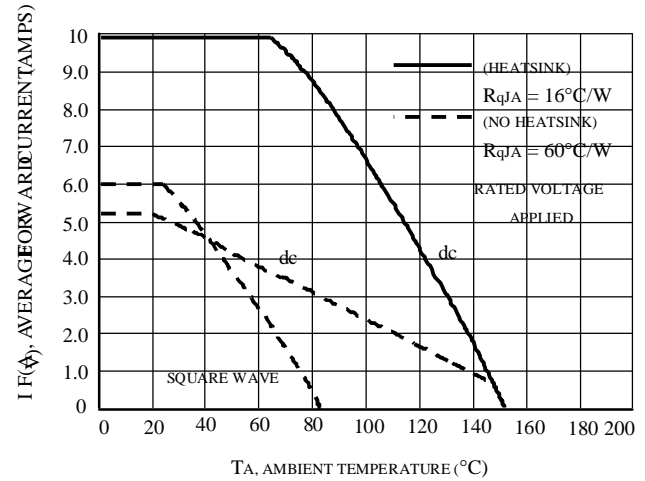


Figure 4. Current Derating, Ambient

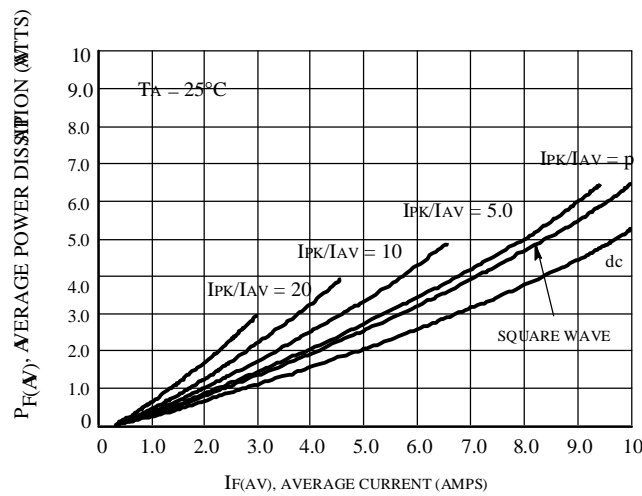


Figure 5. Forward Power Dissipation