

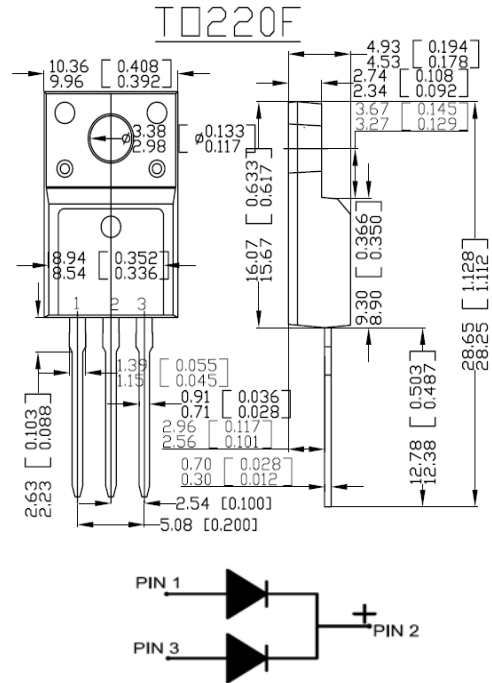


TO- 220F SCHOTTKY BARRIER RECTIFIERS

MBR20100CT

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	MBR20100CT	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	20	A
Maximum Instantaneous Forward Voltage	V_F	@ $I_F = 10A, T_c = 25^\circ C$	0.85
		@ $I_F = 10A, T_c = 125^\circ C$	0.95
		@ $I_F = 20A, T_c = 25^\circ C$	0.95
		@ $I_F = 20A, T_c = 125^\circ C$	0.85
Peak Reverse Current @ $T_c = 25^\circ C$ at Rated DC Blocking Voltage @ $T_c = 125^\circ C$	I_R	@ $T_c = 25^\circ C$	50
		@ $T_c = 125^\circ C$	200
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	°C

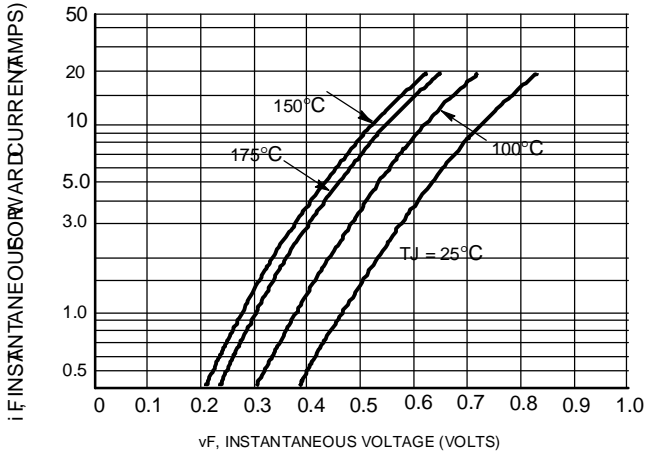


Figure 1. Typical Forward Voltage Per Diode

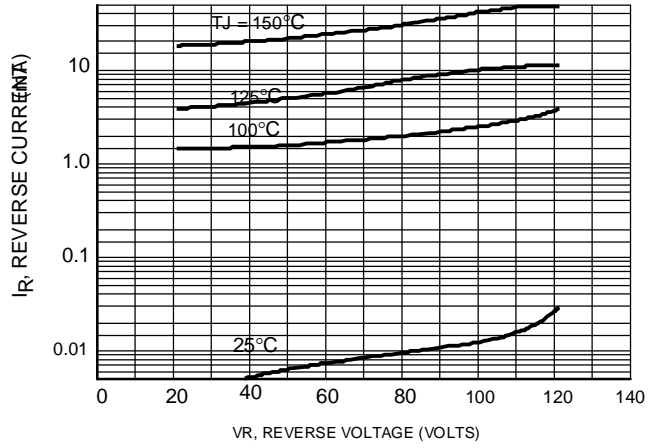


Figure 2. Typical Reverse Current Per Diode

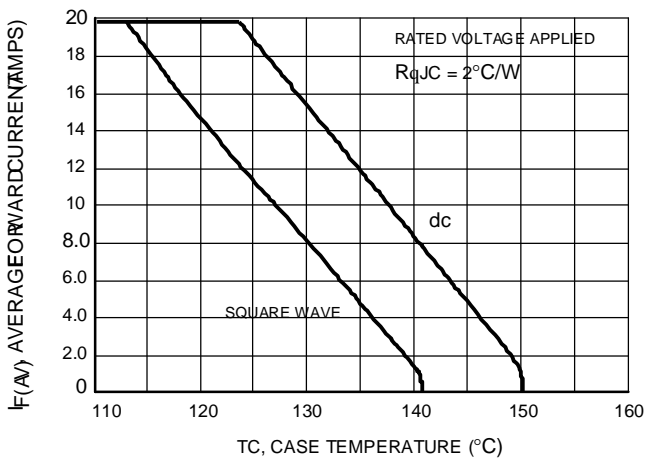


Figure 3. Current Derating, Case

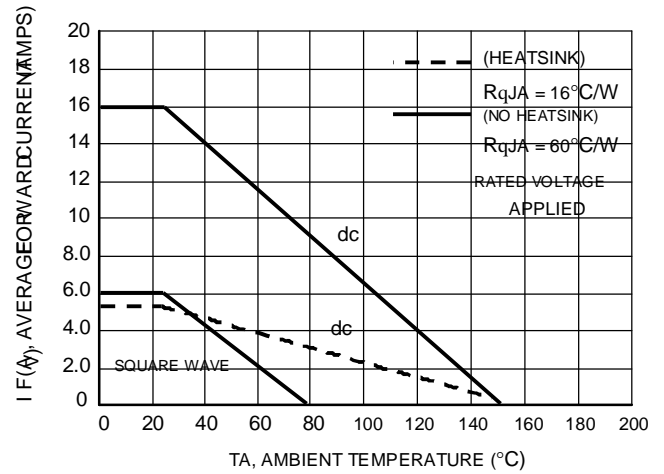


Figure 4. Current Derating, Ambient

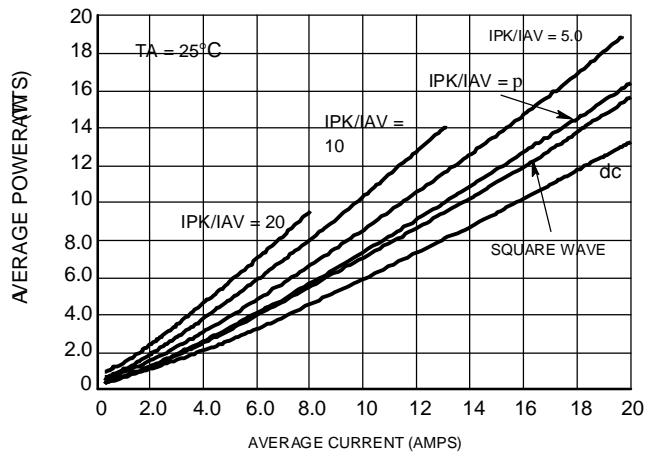


Figure 5. Average Power Dissipation and Average Current