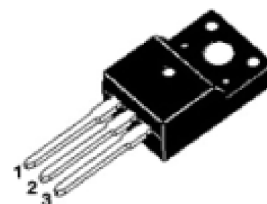


20.0Amp Schottky Barrier Rectifiers

Features

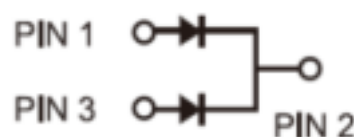
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
250 °C/10 seconds at terminals
- Component in accordance to
RoHS 2011/65/EU



TO-220F

Mechanical Date

- **Case:**TO-220F
Molding compound meets
UL 94 V-0 flammability rating
- **Terminals:** Solder plated, solderable per
MIL-STD-750, Method 2026
- **Polarity :** Polarity symbol marking on body
- **Mounting Position:** Any
- **MARKING:**MBR20200CTF



Maximum Ratings & Thermal Characteristics (T_A = 25 °C unless otherwise specified)

Parameter	Symbol	MBR20200CTF	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	V
Maximum RMS voltage	V _{RMS}	140	V
Maximum DC blocking voltage	V _{DC}	200	V
Maximum average forward rectified current at T _C =125°C	I _{F(AV)}	20	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150	A
Thermal resistance from junction to case	R _{θJC}	1.3	°C/W
Junction temperature	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Parameter	Symbol	MBR20200CTF	Unit
Maximum instantaneous forward voltage per diode at 10.0A	V _F	0.95	V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	0.05	mA
	T _A =125°C	10	

Characteristic Curves (T_A=25 °C unless otherwise noted)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

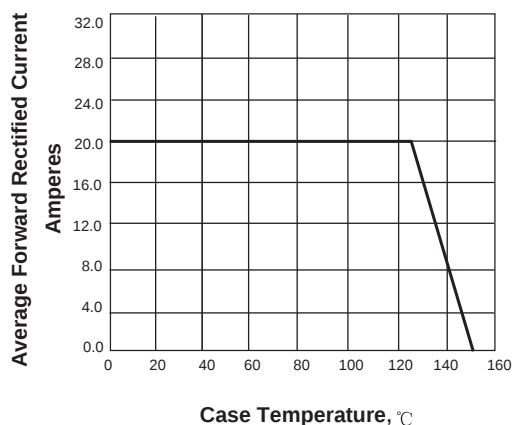


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

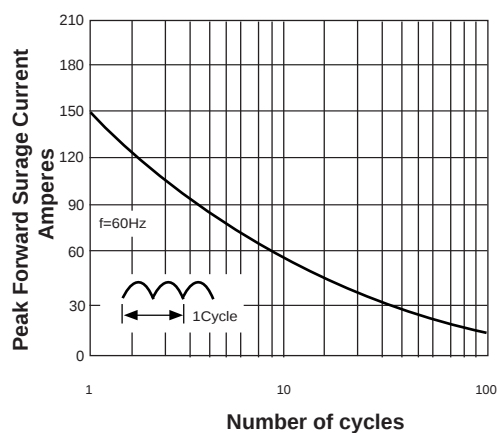


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

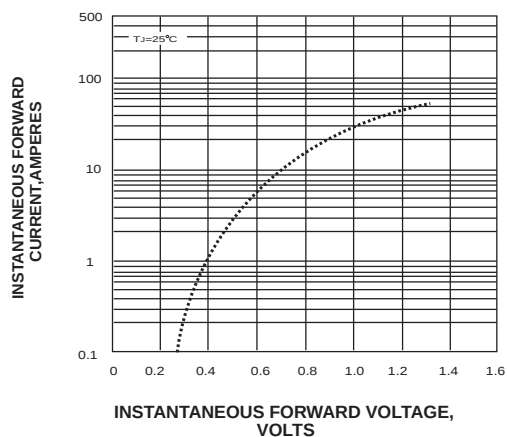
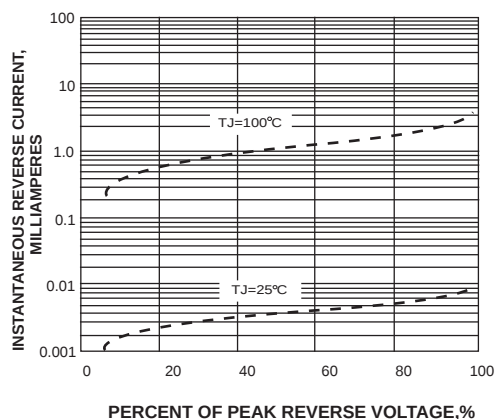
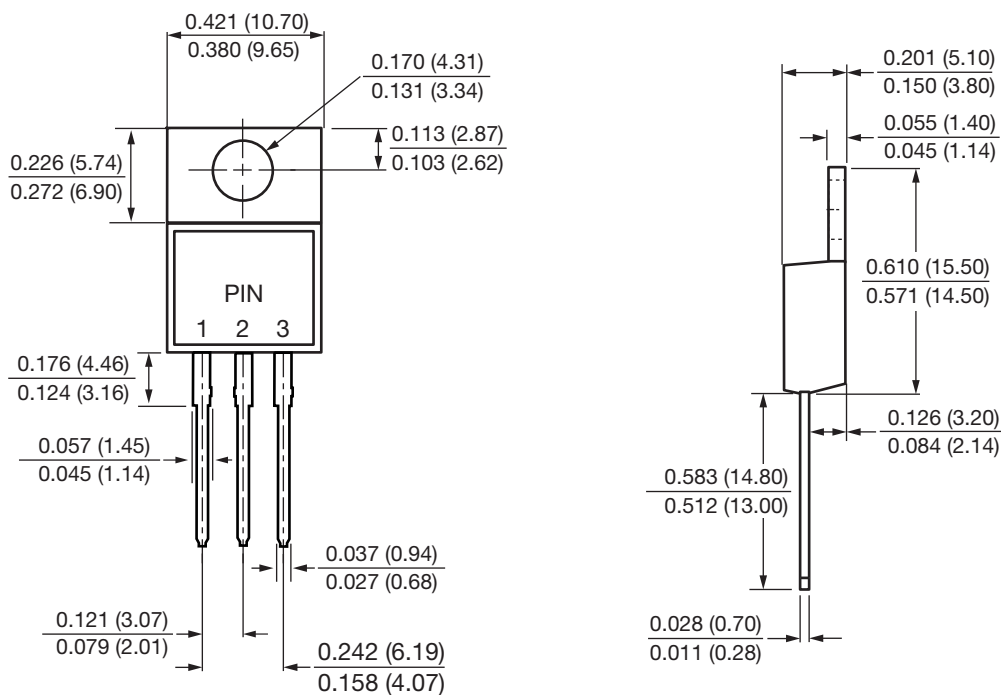


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Package Outline

TO-220F



Dimensions in inches and (millimeters)