MBRF20200CT

20 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
200 Volts

CURRENT
20.0 Ampere

FEATURES

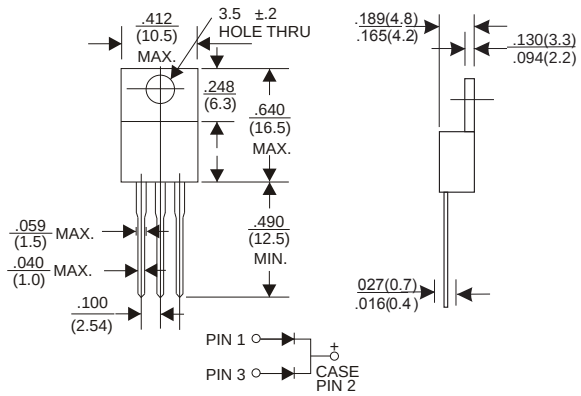
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- Guardring for overvlotage protection
- For use in low voltage,high frequency inverters free wheeling , and polarlity protection applications.
- In compliance with EU RoHS 2002/95/EC directives

* Lead Free Finish/RoHS Compliant

MECHANICALDATA

- Case: ITO-220AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any
- Weight: 1.81 grams.

ITO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBRF20200CT	UNITS
Maximum Recurrent 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 Current (See fig.1)	$I_{F(AV)}$	20	A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	200	A
Maximum Forward Voltage at 10A, per leg	V_F	0.95	V
Maximum DC Reverse Current T_J=25 °C at Rated DC Blocking Voltage T_J=125°C	I_R	0.5 50	mA
Typical Thermal Resistance	$R_{\theta JC}$	3.0	°C / W
Operating and Storage Junction Temperature Range	T_J,T_{STG}	-65to+150	°C
Voltage rate of change (Rated VR)	dV/dt	10000	V/μs

Notes :
Both Bonding and Chip structure are available.

RATING AND CHARACTERISTIC CURVES (MBRF20200CT)

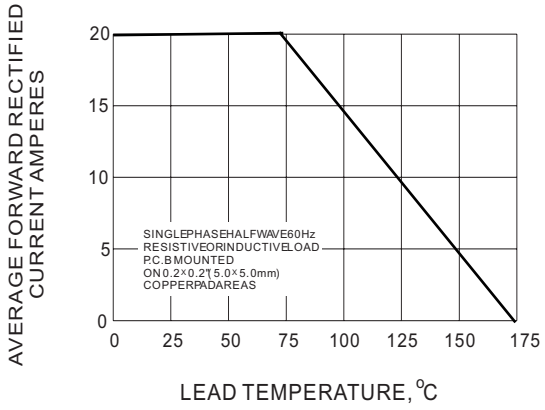


Fig.1-FORWARD CURRENT DERATING CURVE

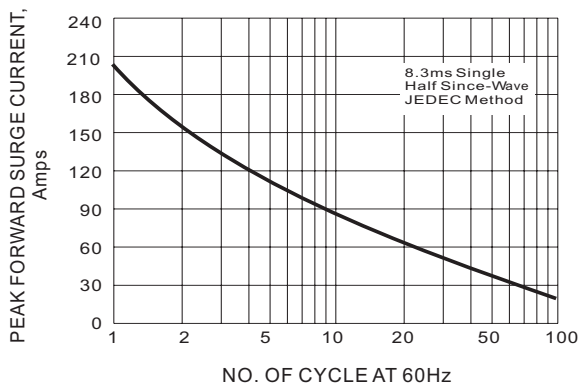


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

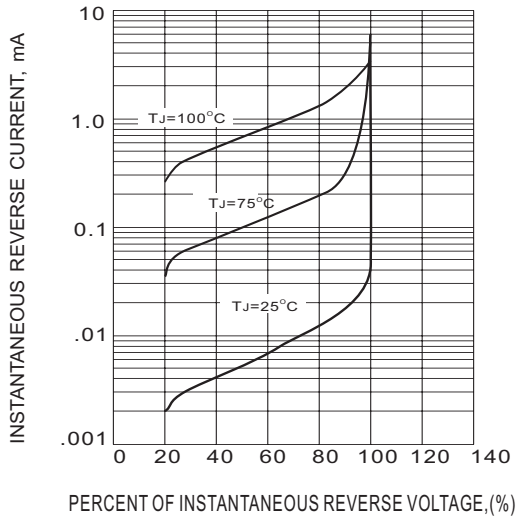


Fig.3- TYPICAL REVERSE CHARACTERISTICS

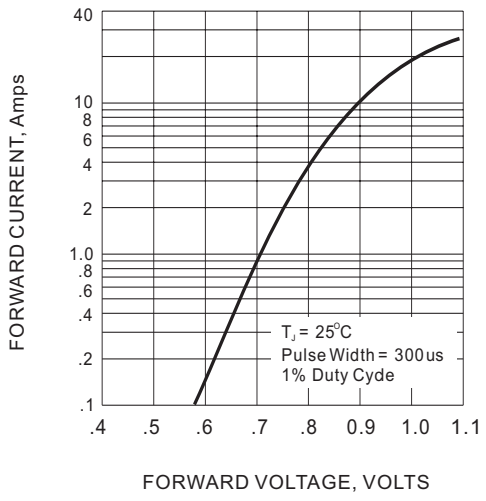


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS