

20 AMPERES SCHOTTKY BARRIER RECTIFIERS

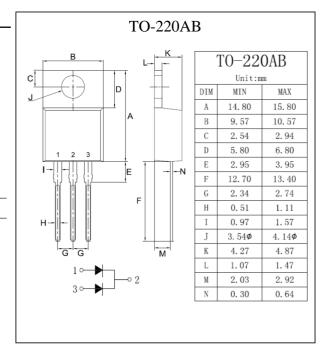
VOLTAGE	100 Volts	
CURRENT	20 Amperes	

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- · High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in comply with EU RoHS

MECHANICAL DATA

- Case: TO-220AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Mounting Position: Any



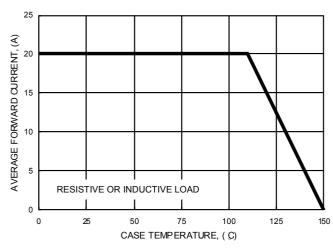
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	MBR20100CTL	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC(AV)}	100	V
Average Rectified Output Current @Tc=110°C	I _F	20	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150	А
Maximum Forward Voltage IF=10A@ Tj=25°C Note(1) IF=10A@ Tj=125°C	V _F	0.79 0.75	V
Maximum DC Reverse Current at Rated DC Tj=25°C Blocking Voltage Tj=125°C	IR	0.01 10	mA
Typical thermal resistance Junction to Case (Note 3)	R⊕JC	2.5	°C/W
Typical thermal resistance Junction to Lead (Note 3)	R⊕JL	2.5	°C/W
Typical Thermal Resistance (Note 2)	CJ	250	pF
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C



RATING AND CHARACTERISTIC CURVES



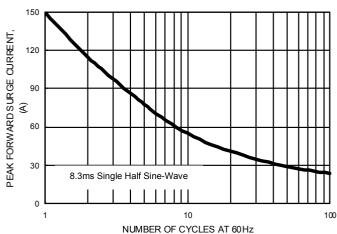
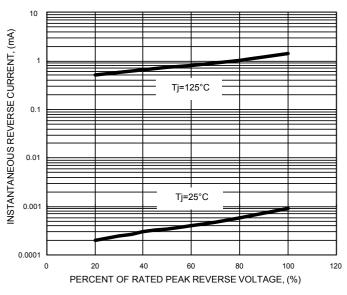


FIG.1-FORWARD CURRENT DERATING CURVE





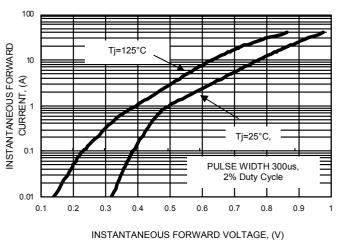


FIG.3- TYPICAL REVERSE CHARACTERISTICS

FIG.4- TYPICAL FORWARD CHARACTERISTICS



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