

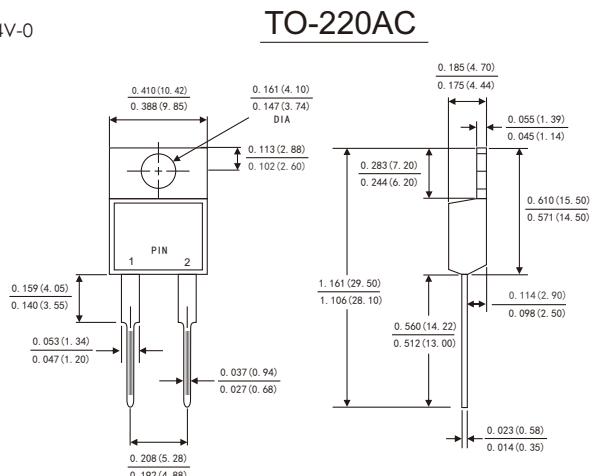
SCHOTTKY BARRIER RECTIFIER
 Reverse Voltage - 200 Volts
 Forward Current - 10.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters,
free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds,
0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: JEDEC TO-220AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	MBR 10200L	Units
Maximum repetitive peak reverse voltage	V _{RRM}	200	Volts
Maximum RMS voltage	V _{RMS}	140	Volts
Maximum DC blocking voltage	V _{DC}	200	Volts
Maximum average forward rectified current (see Fig.1)	I _(AV)	10.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)	V _F	0.88	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I _R T _A =25°C T _A =100°C T _A =125°C	100	µ A
		—	mA
		3	
Typical thermal resistance (Note 2)	R _{θJC}	2.5	°C/W
Operating junction temperature range	T _J	-55 to+150	°C
Storage temperature range	T _{STG}	-55 to+150	°C

Notes: 1.Pulse test: 300 µ s pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

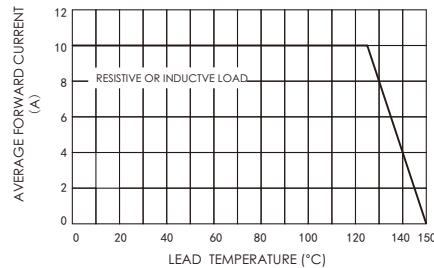


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

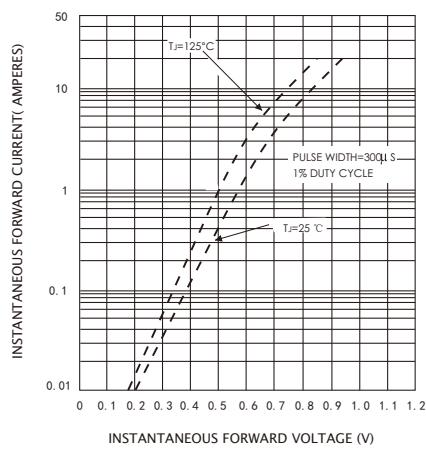


FIG.5-TYPICAL JUNCTION CAPACITANCE

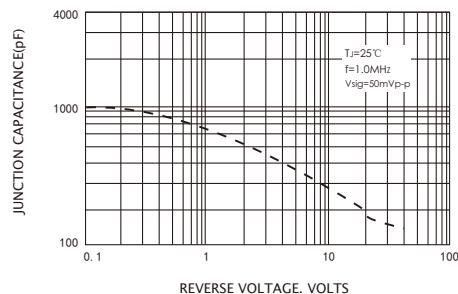


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

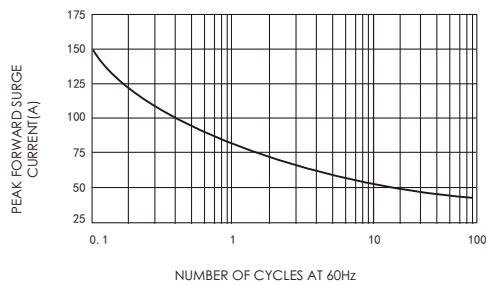


FIG.4-TYPICAL REVERSE CHARACTERISTICS

