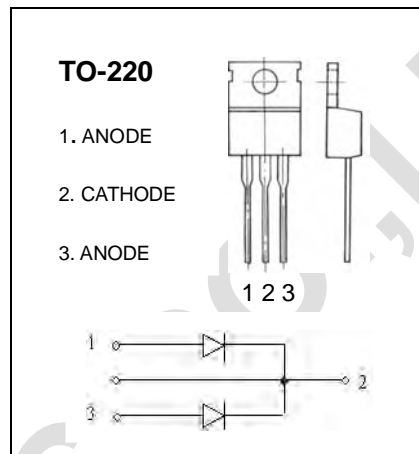


### MBR20200CT SCHOTTKY BARRIER RECTIFIER

#### 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



#### ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C unless otherwise specified)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	200	V
Average Rectified Output Current (Note 1) @ T <sub>C</sub> =125°C	I <sub>O</sub>	20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150	A
Repetitive Peak Reverse Surge Current @ t ≤ 2.0μs	I <sub>RSM</sub>	1	A
Forward Voltage Drop @ I <sub>F</sub> =10A, T <sub>C</sub> =25°C @ I <sub>F</sub> =10A, T <sub>C</sub> =125°C @ I <sub>F</sub> =20A, T <sub>C</sub> =25°C @ I <sub>F</sub> =20A, T <sub>C</sub> =125°C	V <sub>FM</sub>	0.95 0.8 1.0 0.9	V
Peak Reverse Current @ T <sub>C</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>C</sub> =125°C	I <sub>RM</sub>	1 50	mA
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	500	pF
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150	°C

Notes: 1. Thermal resistance junction to case mounted heat sink.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.