



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

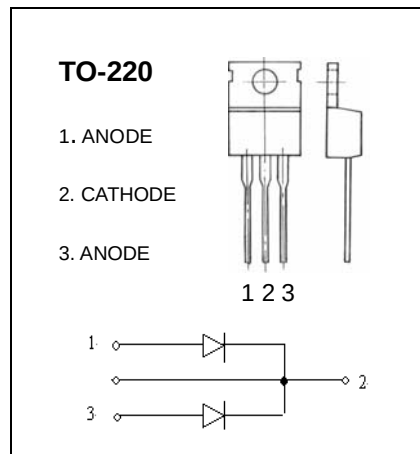
TO-220 Plastic-Encapsulate Diodes

MBR10100CT

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 (Tamb=25°C unless otherwise specified)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	V
Average Rectified Output Current (Note 1) Per leg Per package	I_O	5 10	A
Forward Voltage Drop @ $I_F=5A$, $T_C=25^\circ C$ @ $I_F=10A$, $T_C=25^\circ C$	V_F	0.85 0.95	V
Peak Reverse Current @ $V_R=100V$ at Rated DC Blocking Voltage	I_R	0.1	mA
Typical Junction Capacitance (Note 2)	C_j	300	pF
Operating and Storage Temperature Range	T_j , T_{STG}	-55 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.