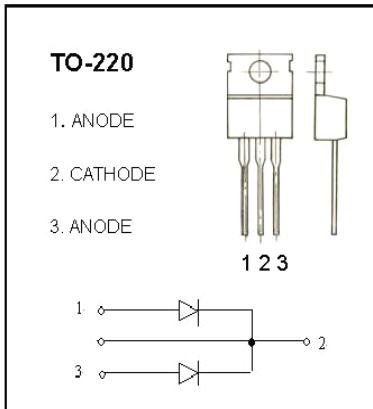


MBR2030CT-MBR2060CT

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	MBR 2030	MBR 2035	MBR 2040	MBR 2045	MBR 2050	MBR 2060	Unit
Peak Repetitive Reverse Voltage	V _{RRM}							
Working Peak Reverse Voltage	V _{RWM}	30	35	40	45	50	60	V
DC Blocking Voltage	V _R							
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current (Note 1) @ T_c=125°C	I _O				20			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				150			A
Forward Voltage Drop @ I_F=10A, T_j=25°C @ I_F=10A, T_j=125°C	V _{FM}		0.70		0.80			V
Peak Reverse Current @ T_j= 25°C at Rated DC Blocking Voltage @ T_j=125°C	I _{RM}		0.1		15			mA
Typical Junction Capacitance (Note 2)	C _J			650				pF
Operating and Storage Temperature Range	T _j , T _{STG}			-65 to +150				°C

Notes: 1. Thermal resistance junction to case mounted heat sink.

2. Measured at 1MHz and applied reverse voltage of 4.0V DC.

Typical Characteristics

MBR2030CT-MBR2060CT

