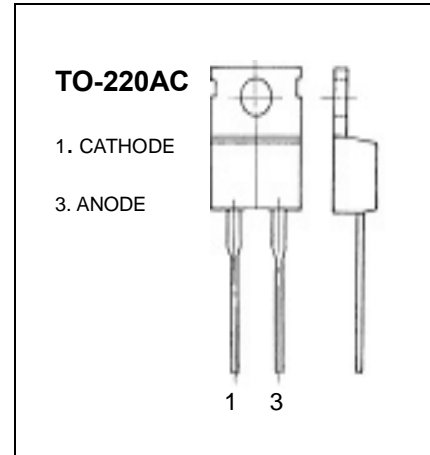


MBR10100 SCHOTTKY BARRIER RECTIFIER

FEATURE

- 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	V_{RRM}	100	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Average Rectified Output Current (Note 1)	I_O	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I_{FSM}	150	A
Repetitive Peak Reverse Surge Current @ $t \leq 2.0\mu s$	I_{RRM}	0.5	A
Voltage Rate of Change(Rated V_R)	dv/dt	10000	V/ μs
Forward Voltage Drop	V_F	@ $I_F=10A, T_C=125^\circ C$	V
		@ $I_F=10A, T_C=25^\circ C$	
		@ $I_F=20A, T_C=125^\circ C$	
		@ $I_F=20A, T_C=25^\circ C$	
Peak Reverse Current	I_R	@ $T_C= 25^\circ C$	mA
at Rated DC Blocking Voltage		@ $T_C=125^\circ C$	
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150	$^\circ C$

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