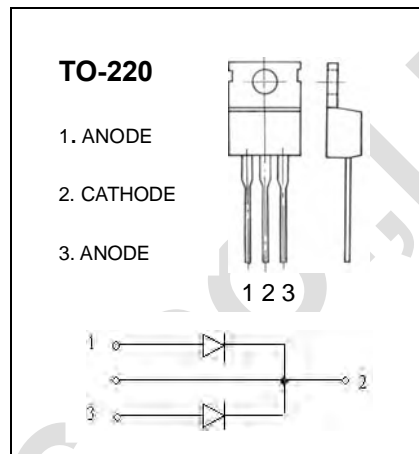


### MBR2070CT-20100CT

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 2070CT	MBR 2080CT	MBR 2090CT	MBR 20100CT	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$					
Working Peak Reverse Voltage	$V_{RWM}$	70	80	90	100	V
DC Blocking Voltage	$V_R$					
PMS Reverse Voltage	$V_{R(RMS)}$	49	56	63	70	V
Average Rectified Output Current (Note 1) @ $T_C=125^\circ\text{C}$	$I_O$	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 @ $I_F=10\text{A}, T_C=125^\circ\text{C}$ @ $I_F=10\text{A}, T_C=25^\circ\text{C}$ @ $I_F=20\text{A}, T_C=125^\circ\text{C}$ @ $I_F=20\text{A}, T_C=25^\circ\text{C}$	$V_{FM}$	0.75 0.85 0.85 0.95				V
Peak Reverse Current @ $T_C=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_C=125^\circ\text{C}$	$I_{RM}$	0.15 150				mA
Typical Junction Capacitance (Note 2)	$C_j$	1000				pF
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150				$^\circ\text{C}$

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