

MBR2070CT - MBR20100CT

20A HIGH VOLTAGE 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
- Plastic Material: UL Flammability Classification Rating 94V-0

Pin 1 O O Case

TO-220AB					
Dim	Min	Max			
Α	14.22	15.88			
В	9.65	10.67			
С	2.54	3.43			
D	5.84	6.86			
E	_	6.35			
G	12.70	14.73			
Н	2.29	2.79			
J	0.51	1.14			
K	3.53∅	4.09∅			
L	3.56	4.83			
М	1.14	1.40			
N	0.30	0.64			
Р	2.03	2.92			
All Dimensions in mm					

Mechanical Data

• Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body
Weight: 2.24 grams (approx)

Mounting Position: AnyMarking: Type Number

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MBR 2070CT	MBR 2080CT	MBR 2090CT	MBR 20100CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	٧
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	٧
Average Rectified Output Current (Note 1) @ T _C = 125°C	lo	20				Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150				А
Forward Voltage Drop	V _{FM}	0.75 0.85 0.85 0.95				\ \
		0.15 150			mA	
Typical Junction Capacitance (Note 2)		1000				pF
Typical Thermal Resistance Junction to Case (Note 1)		2.0				°C/W
Voltage Rate of Change		10000				V/µs
Operating and Storage Temperature Range		-65 to +150 -65 to +175				°C

Notes:

- 1. Thermal resistance junction to case mounted on heatsink.
- 2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

