

MBR1030CT - MBR1060CT

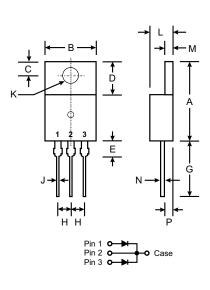
10A SCHOTTKY BARRIER RECTIFIER

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

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: Any
- Marking: Type Number



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					
К	3.53Ø	4.09Ø					
L	3.56	4.83					
м	1.14	1.40					
N	0.30	0.64					
Р	2.03	2.92					
All Dimensions in mm							

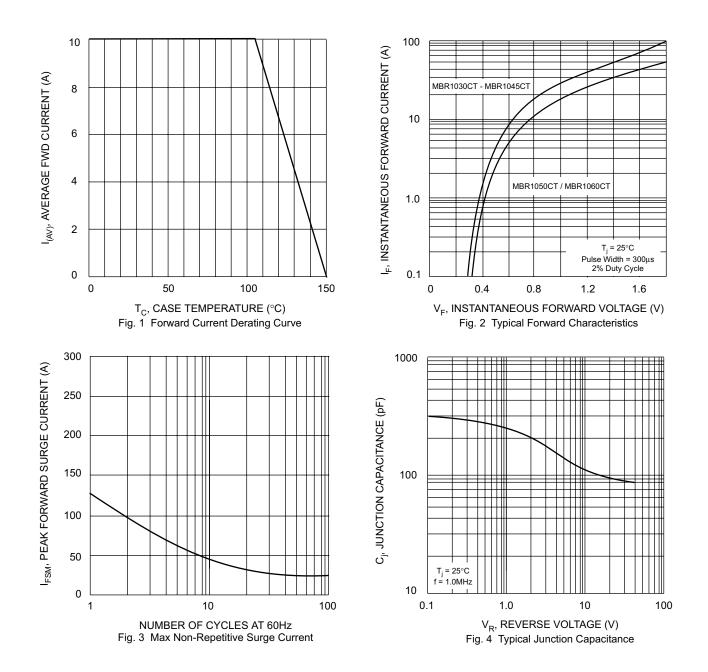
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	MBR 1030CT	MBR 1035CT	MBR 1040CT	MBR 1045CT	MBR 1050CT	MBR 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	v
RMS Reverse Voltage		21	24.5	28	31.5	35	42	V
Average Rectified Output Current (Note 1)	lo	10						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		125						A
Repetitive Peak Reverse Surge Current $@ t \le 2.0 \mu s$	I _{RRM}	1.0						Α
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	V _{FM}	0.57 0.70 0.70 0.80 0.84 0.95			80	v		
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 125^{\circ}C$		0.1 15						mA
Typical Junction Capacitance (Note 2)		150						pF
Typical Thermal Resistance Junction to Case (Note 1)		30						K/W
Voltage Rate of Change (Rated V _R)		1000						V/µs
Operating and Storage Temperature Range		-65 to +150						°C

Notes: 1. Thermal resistance junction to case mounted on heatsink.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



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