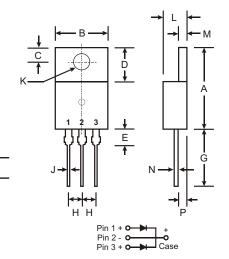


MBR2030CT - MBR2060CT

20A 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



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	3.53Ø	4.09∅				
L	3.56	4.83				
M	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

Marking: Type Number

Weight: 2.24 grams (approx)

Mounting Position: Any

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 2030CT	MBR 2035CT	MBR 2040CT	MBR 2045CT	MBR 2050CT	MBR 2060CT	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	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current @ $T_C = 125^{\circ}C$ (Note 1)				2	20			Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		150					А	
Forward Voltage Drop (Note 3)	V _{FM}		0.	84 72 57		0.	95 85 70	V
Peak Reverse Current @ T _C = 25°C at Rated DC Blocking Voltage @ T _C = 125°C		0.1 15				mA		
Typical Junction Capacitance (Note 2)		650					pF	
Typical Thermal Resistance Junction to Case (Note 1)	R _θ Jc			2	.0			°C/W
Voltage Rate of Change (Rated V _R)		1000 10,000				000	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.
- 3. Pulse width \leq 300 μ s, duty cycle \leq 2%.



