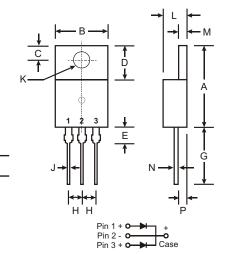


MBR1530CT - MBR1560CT

15A 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					
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

Marking: Type Number

Weight: 2.24 grams (approx.)

Mounting Position: Any

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	Symbo	I MBR 1530CT	MBR 1535CT	MBR 1540CT	MBR 1545CT	MBR 1550CT	MBR 1560CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	٧
RMS Reverse Voltage	V _{R(RMS}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current @ T _C = 125°C (Note 1)		15						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)			150					А
Forward Voltage Drop	5°C V _{FM}		0.72 0.57 0.84			0.80 0.65 0.90		V
Peak Reverse Current @ T _C = 2 at Rated DC Blocking Voltage @ T _C = 12		0.1 1.0 15 50				mA		
Typical Junction Capacitance (Not	e 2) C _j	300					pF	
Typical Thermal Resistance Junction to Case (Not	e 1) R _{θJc}			1	.7			°C/W
Voltage Rate of Change (Rated V _R)			1000 10,000					V/μs
Operating and Storage Temperature Range		i	-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.



