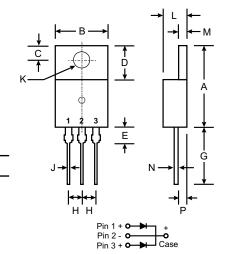


MBR1530CT - MBR1560CT

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	3.53∅	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

Marking: Type Number

Weight: 2.24 grams (approx.)

Mounting Position: Any

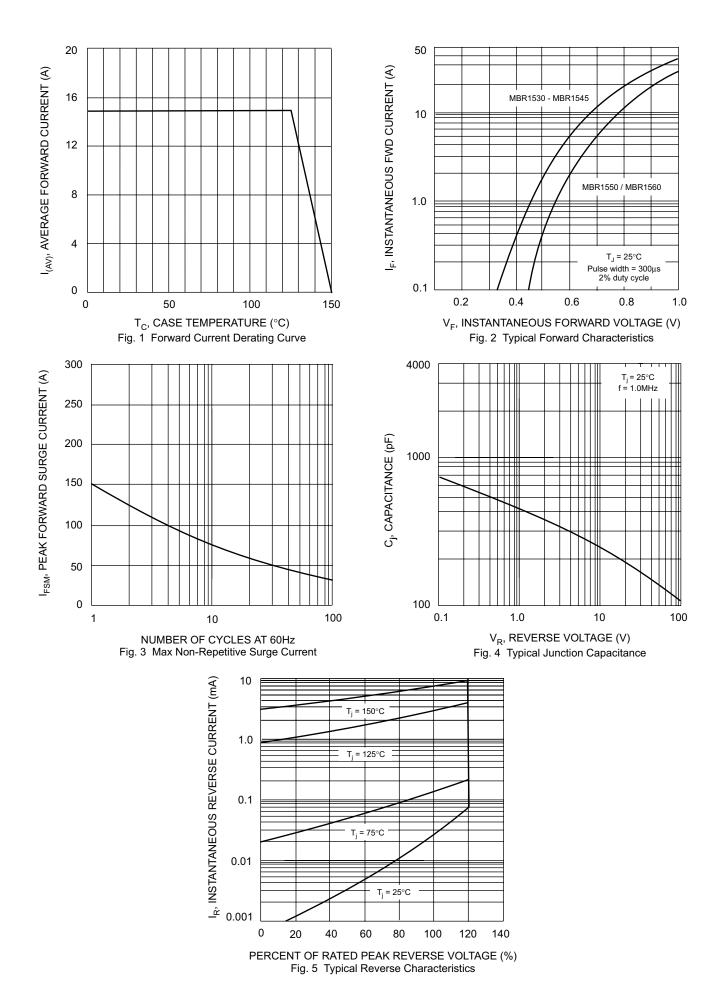
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	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	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	٧
Average Rectified Output Current @ T _C = 125°C (Note 1)	Io	15					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}	0.57 0.65 0.70 0.75					V	
	I _{RM}	0.1 1.0 15 50				mA		
Typical Junction Capacitance (Note 2)	Cj	300					pF	
Typical Thermal Resistance Junction to Case (Note 1)		1.7					°C/W	
Voltage Rate of Change (Rated V _R)	dV/dt		1000			10,000		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.



DS23013 Rev. F-2 2 of 2 MBR1530CT - MBR1560CT