

MBR1530CT thru 1560CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 60 Volts FORWARD CURRENT - 15 Amperes

FEATURES

- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free whelling, and polarity protection applications

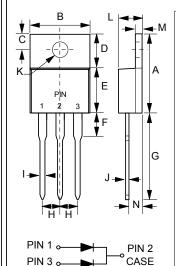
MECHANICAL DATA

Case: TO-220AB molded plastic
Polarity: As marked on the body
Weight: 0.08 ounces, 2.24 grams

• Mounting position : Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

TO-220AB



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	8.26	9.28				
F	-	6.35				
G	12.70	14.73				
Н	2.29	2.79				
I	0.51	1.14				
J	0.30	0.64				
K	3.53 ∅	4.09 ø				
L	3.56	4.83				
М	1.14	1.40				
N	2.03	2.92				
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBR 1530CT	MBR	MBR	MBR	MBR	MBR	UNIT
			1535CT	1540CT	1545CT	1550CT	1560CT	
Maximum Recurrent Peak Reverse Voltage	VRRM	30	35	40	45	50	60	V
Maximum RMS Voltage	VRMS	21	24.5	28	31.5	35	42	V
Maximum DC Blocking Voltage	VDC	30	35	40	45	50	60	V
Maximum Average Forward RectifiedCurrent at TC=125°C (See Fig.1)	I(AV)	15						А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	150						А
Voltage Rate of Change (Rated VR)	dv/dt	10000					V/us	
Maximum Forward Voltage, (Note 1)	VF	0.57 0.65 0.84 0.90 0.72 0.80					90	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =125°C	lR	0.1 1.0 15 50					mA	
Typical Junction Capacitance, per element (Note 2)	Cı	400					pF	
Typical Thermal Resistance (Note 3)	Rejc	3.0					°C/W	
Operating Temperature Range	TJ	-55 to +150					°C	
Storage Temperature Range	Tstg	-55 to +175					.€	
NOTE: 1 200 to Bulgo Width 20/ Duty Code							1.0040.1671	1000

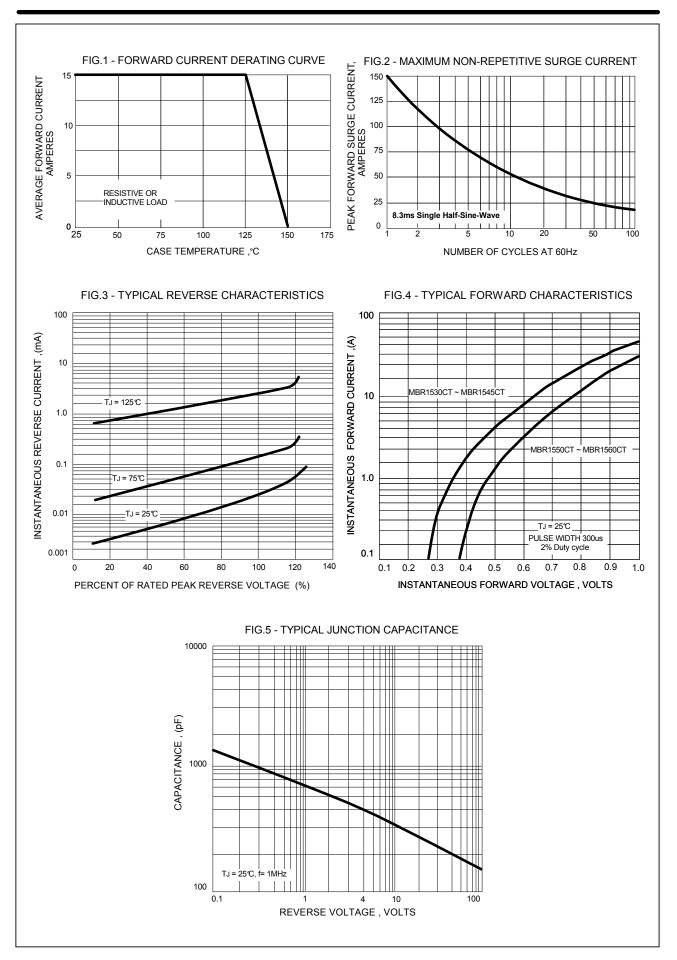
NOTES: 1. 300us Pulse Width, 2% Duty Cycle.

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

3. Thermal Resistance Junction to Case.

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