

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

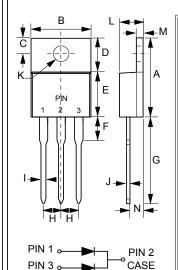
MECHANICAL DATA

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				
Е	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 Ø	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.

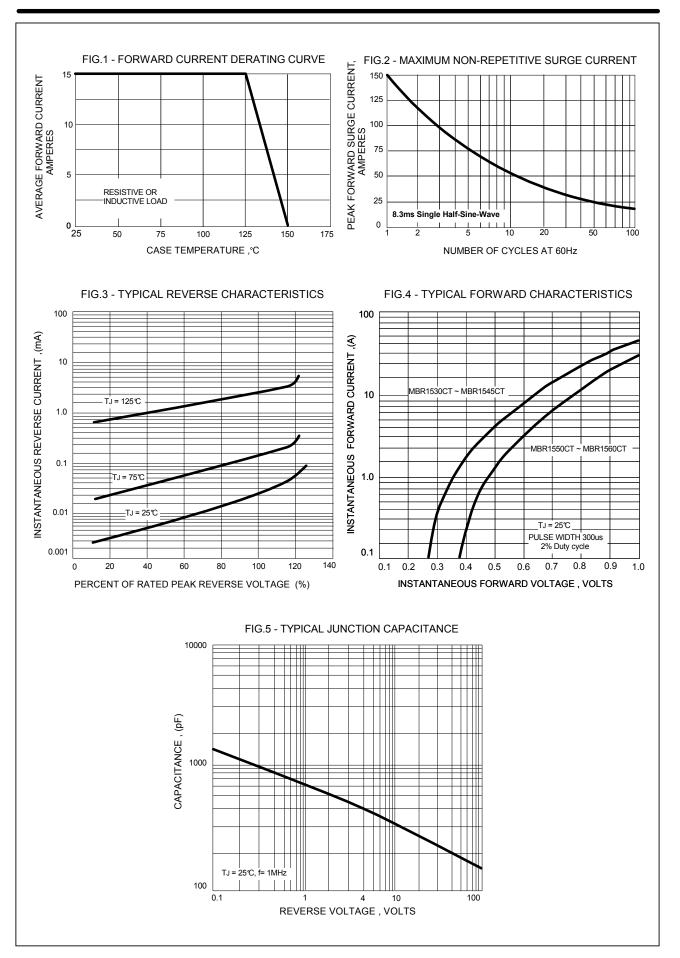
CHARACTERISTICS	SYMBOL	MBR 1530CT	MBR 1535CT	MBR 1540CT	MBR 1545CT	MBR 1550CT	MBR 1560CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	35	40	45	50	60	V
Maximum RMS Voltage	VRMS	21	24.5	28	31.5	35	42	V
Maximum DC Blocking Voltage	VDC	30	35	40	45	50	60	V
Maximum Average Forward RectifiedCurrent at TC=125°C (See Fig.1)	I(AV)	15					Α	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	150						Α
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					V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 125°C	lR	0.1 1.0 15 50					mA	
Typical Junction Capacitance, per element (Note 2)	Cl	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					℃	
NOTEO : 4. 000: Puls Width - 00/ Puls- Ourls								

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.

REV. 5, Oct-2010, KTHC02







Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.