

MBR10150CT thru 10200CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **150** to **200** Volts FORWARD CURRENT - **10** Amperes

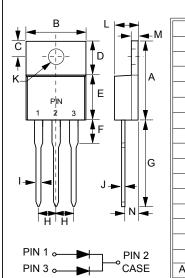
TO-220AB

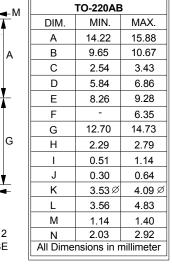
FEATURES

- 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

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)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBR10150CT	MBR10200CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	150	200	V
Maximum RMS Voltage	VRMS	105	140	V
Maximum DC Blocking Voltage	VDC	150	200	V
Maximum Average Forward Rectified Current (See Fig.1) Tc =105°C	I(AV)	10		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	120		А
Voltage Rate of Change (Rated VR)	dv/dt	10000		V/us
Maximum Forward IF=5A @ TJ =25 ℃ Voltage (Note 1) IF=5A @ TJ =125 ℃ IF=10A @ TJ =25 ℃ IF=10A @ TJ =125 ℃	VF	0.92 0.75 1.00 0.85		V
Maximum DC Reverse Current@TJ =25℃at Rated DC Blocking Voltage@TJ =125℃	IR	8 2		uA mA
Typical Thermal Resistance (Note 2)	Rejc	3.	0	°C/W
Typical Junction Capacitance per element (Note 3)	Сл	300		pF
Operating Temperature Range	TJ	-65 to +175		°C
Storage Temperature Range	Тѕтс	-65 to	+175	°C

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

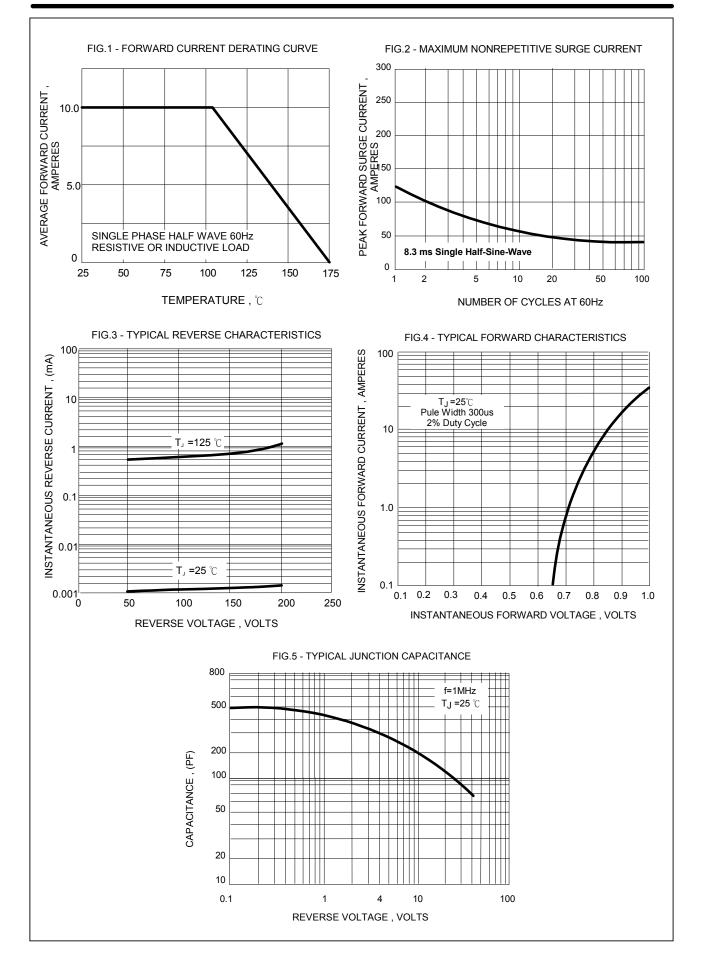
2. Thermal Resistance Junction to Case.

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

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RATING AND CHARACTERISTIC CURVES MBR10150CT thru 10200CT

LITEON





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