

MBR2530CT thru 2560CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 60 Volts FORWARD CURRENT - 25 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

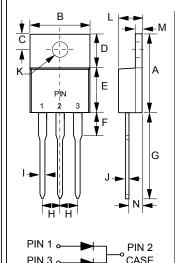
MECHANICAL DATA

• 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 Ø	4.09 Ø				
L	3.56	4.83				
М	1.14	1.40				
N	2.03	2.92				
All Dimensions in millimeter						

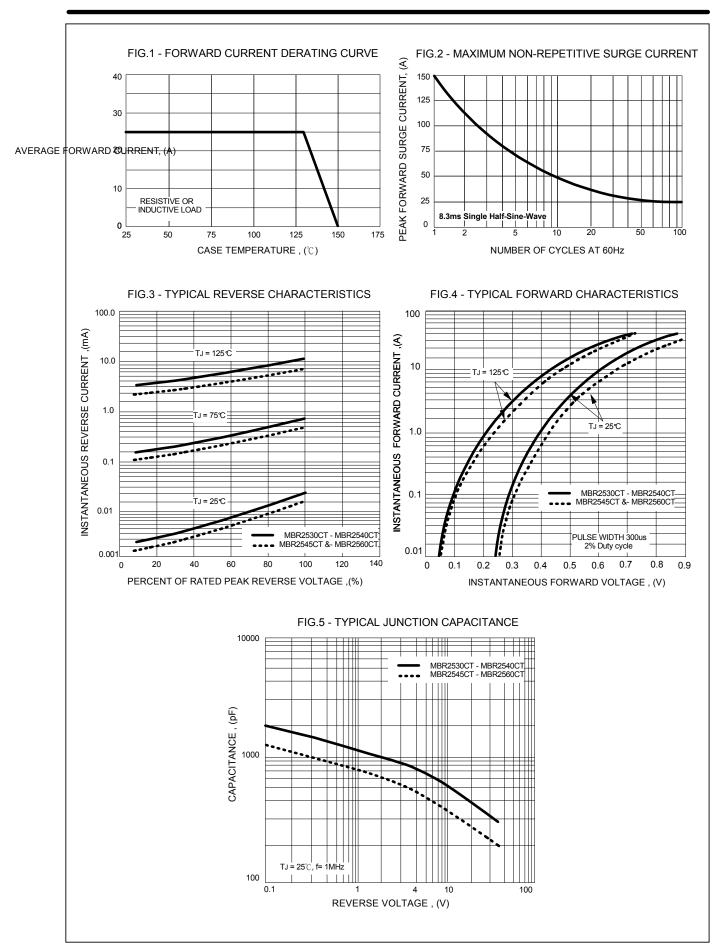
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBR 2530CT	MBR 2535CT	MBR 2540CT	MBR 2545CT	MBR 2550CT	MBR 2560CT	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 Rectified Current @Tc=130°C	I(AV)	25						А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	150						А
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	VF	- 0.75 - 0.65 0.82					V	
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=125℃	lR	0.2 40.0				1.0 50.0	mA	
Voltage rate of change (Rated VR)	dv/dt	10,000					V/us	
Typical Junction Capacitance per element (Note 2)	Сл	450				pF		
Typical Thermal Resistance (Note 3)	Rejc	1.5				°C/W		
Operating Temperature Range	TJ	-55 to +150				°C		
Storage Temperature Range	Tstg	-55 to +175				°C		
NOTES : 1. 300us Pulse Width, 2% Duty Cycle.					REV. 3,Oct-2011, KTHC15			

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal Resistance Junction to Case.







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