

MBR2030CT thru 2060CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 60 Volts FORWARD CURRENT - 20 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

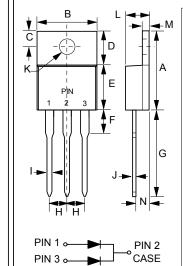
MECHANICAL DATA

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					
Ν	2.03	2.92					
All Dimensions in millimeter							

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

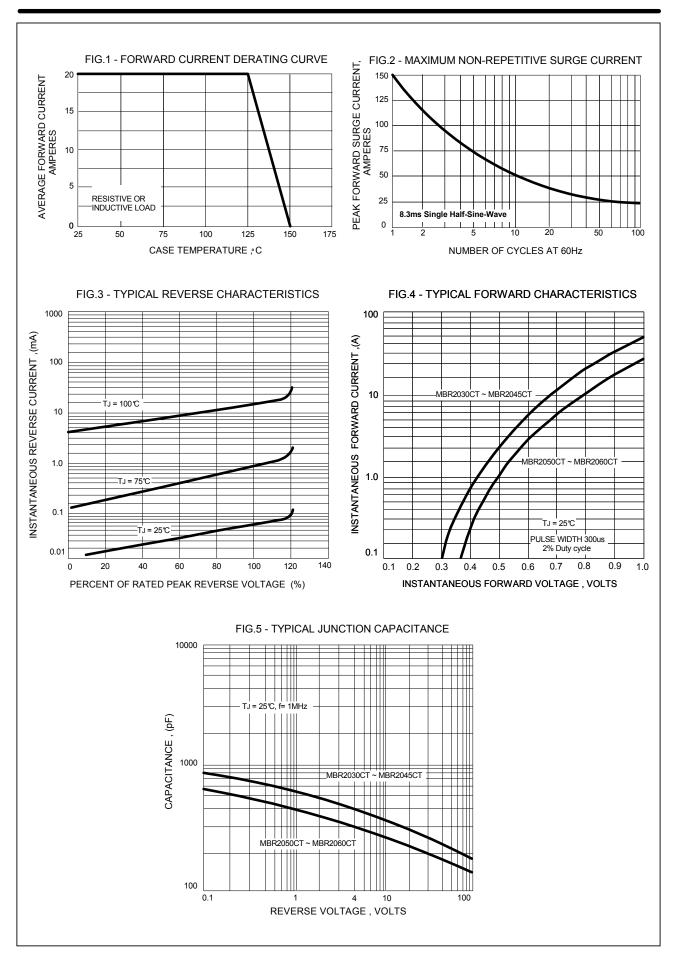
CHARACT	ERISTICS		SYMBOL	MBR 2030CT	MBR 2035CT	MBR 2040CT	MBR 2045CT	MBR 2050CT	MBR 2060CT	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	30	35	40	45	50	60	V	
Maximum RMS Voltage		VRMS	21	24.5	28	31.5	35	42	V	
Maximum DC Blocking \	/oltage		VDC	30	35	40	45	50	60	V
Maximum Average Forw Rectified Current (See F		Tc =125°C	I(AV)			2	0			Α
Peak Forward Surge Cu 8.3ms single half sine-w superimposed on rated I	ave		IFSM			15	50			А
Voltage Rate of Change (Rated VR)			dv/dt	10000						V/us
Maximum Forward Voltage (Note 1)	IF=10A @ IF=10A @ IF=20A @ IF=20A @	TJ=25°C TJ=125°C TJ=25°C TJ=125°C	VF		().65).57).84).72		0	.80 .70 .95 .85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =100°C		lr	0.1 15						mA	
Typical Junction Capacit per element (Note 2)	tance		Сл		3	300		4	100	pF
Typical Thermal Resistance (Note 3)		Rejc	2.0					°C/W		
Operating Temperature Range		TJ	-55 to +150					°C		
Storage Temperature Range		Тѕтс	-55 to +175					°C		

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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