

MBR730 thru MBR760

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 60 Volts FORWARD CURRENT - 7.5 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

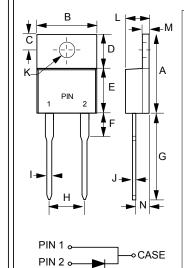
MECHANICAL DATA

Case: TO-220AC 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-220AC



TO-220AC									
MIN.	MAX.								
14.22	15.88								
9.65	10.67								
2.54	3.43								
5.84	6.86								
8.26	9.28								
-	6.35								
12.70	14.73								
4.83	5.33								
0.51	1.14								
0.30	0.64								
3.53 Ø	4.09 Ø								
3.56	4.83								
1.14	1.40								
2.03	2.92								
All Dimensions in millimeter									
	MIN. 14.22 9.65 2.54 5.84 8.26 - 12.70 4.83 0.51 0.30 3.53 Ø 3.56 1.14 2.03								

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

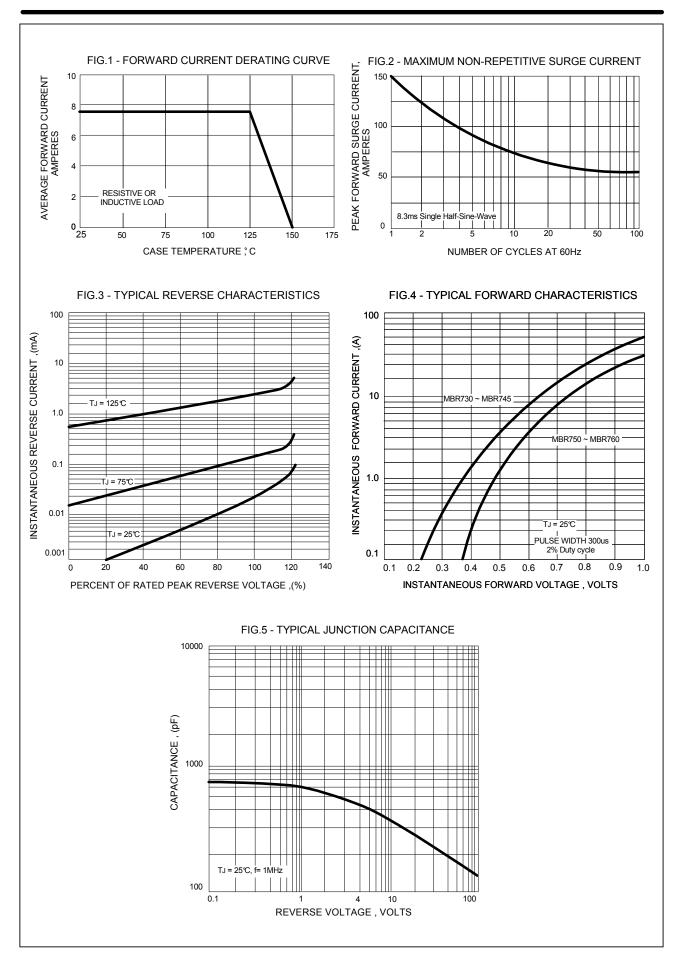
CHARA	CTERISTICS	3	SYMBOL	MBR730	MBR735	MBR740	MBR745	MBR750	MBR760	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	30	35	40	45	50	60	V	
Maximum RMS Voltage		VRMS	21	24.5	28	31.5	35	42	V	
Maximum DC Blocking Voltage		VDC	30	35	40	45	50	60	V	
Maximum Average Forward Rectified Current (See Fig.1) @Tc=125°C			I(AV)	7.5					А	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		IFSМ	150						А	
Voltage Rate of Change (Rated VR)			dv/dt	10000						V/us
Maximum Forward Voltage (Note 1)	IF =7.5A @ IF =7.5A @ IF =15A @ IF =15A @		VF		0.4 0.4 0.7	57		_	.75 .65 -	٧
Maximum DC Revers		@TJ =25°C @TJ =125°C	lr	0.1 0.5 15 50			mA			
Typical Thermal Resistance (Note 2)		Rejc	3.5					°C/W		
Typical Junction Capacitance (Note 3)		Сл	400						pF	
Operating Temperature Range		TJ	-55 to +150					°C		
Storage Temperature Range		Тѕтс	-55 to +175				°C			
DEVI 5 Oct 2010 1/7114										

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

- 2. Thermal Resistance Junction to Case.
- 3. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

REV. 5,Oct-2010, KTHA02







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