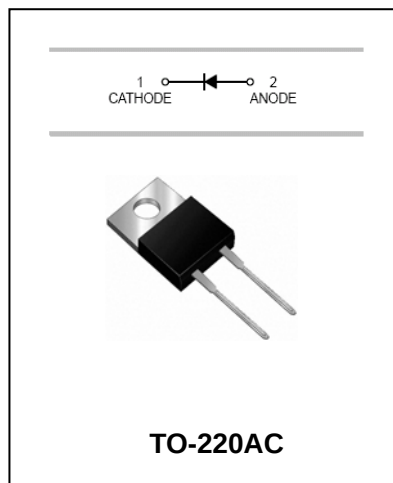


Schottky Barrier Rectifier

MBR730...MBR760

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capacity, Low Forward Voltage Drop.
- The Plastic Material Carries U/L Recognition 94V-0.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBR 730	MBR 735	MBR 740	MBR 745	MBR 750	MBR 760	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	30	35	40	45	50	60	V
V_{RMS}	RMS Reverse Voltage	21	24.5	28	31.5	35	42	V
V_{DC}	DC Blocking Voltage	30	35	40	45	50	60	V
$I_{F(AV)}$	Average Rectified Output Current(Note 1) @ $T_A=125^{\circ}C$	7.5						A
I_{FSM}	Forward Surge Current 8.3ms Single Half Sine-wave Superimosed on Rated Load	150						A
C_J	Typical Junction Capacitance (Note 2)	400						pF
$R_{\theta JC}$	Thermal Resistance(Note1)	3.5						$^{\circ}C/W$
T_j T_{stg}	Operating and Storage Temperature Range	-65to +150						$^{\circ}C$

Notes: 1. Thermal resistance junction to case mounted on heatsink.

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



Schottky Barrier Rectifier

MBR730...MBR760

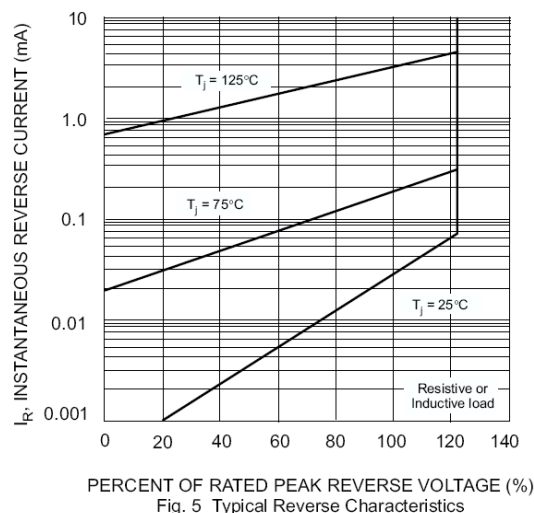
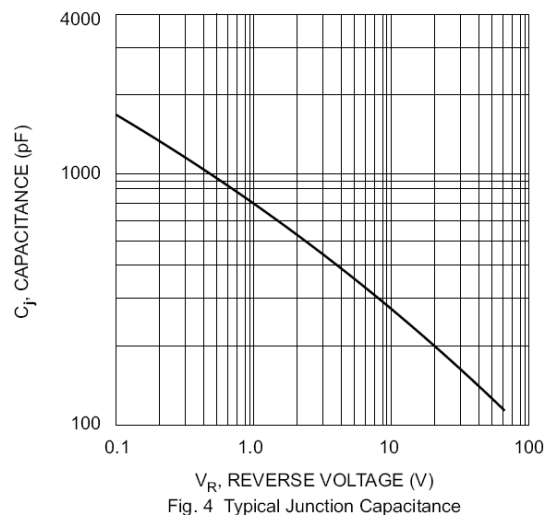
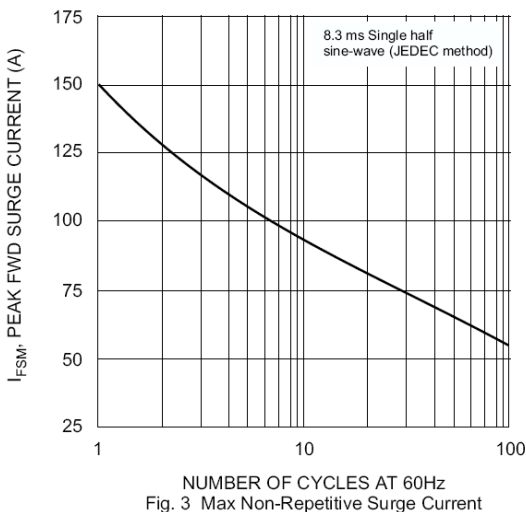
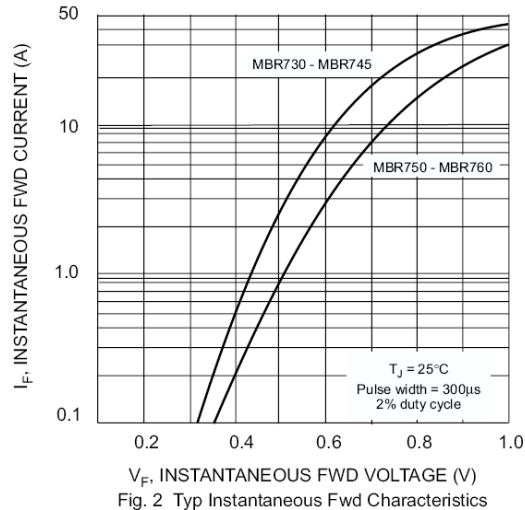
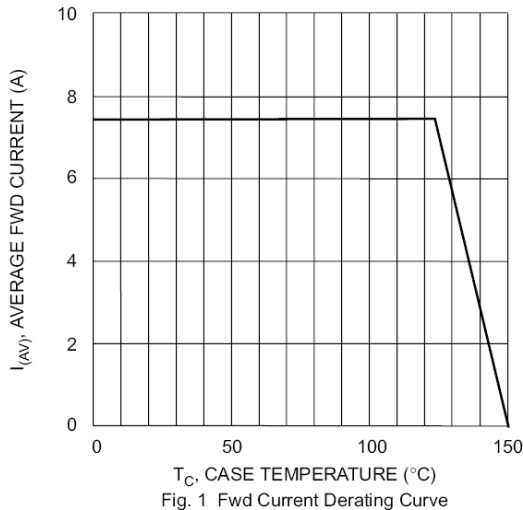
ELECTRICAL CHARACTERISTICS @ $T_a=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MBR730- MBR745	MBR750- MBR760	UNIT
			MAX		
Reverse Current	I _R	V _R =V _{RRM} , T _A =25°C	1.0		mA
		V _R =V _{RRM} , T _A =125°C	15	50	
Forward Voltage	V _F	I _F =7A	0.55	0.70	V

Schottky Barrier Rectifier

MBR730...MBR760

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified





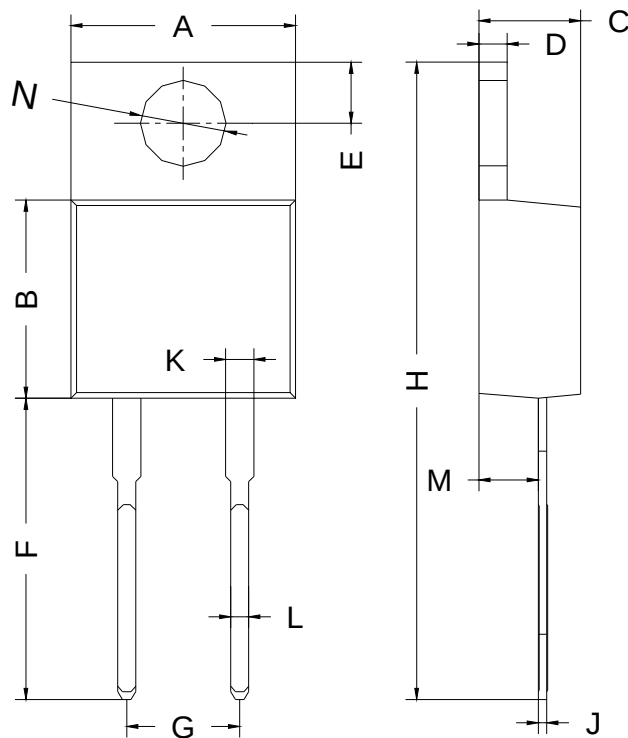
Schottky Barrier Rectifier

MBR730...MBR760

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AC



TO-220AC		
Dim	Min	Max
A	9.80	10.30
B	8.70	9.10
C	4.57 Typical	
D	1.27 Typical	
E	2.64	2.84
F	13.14	13.74
G	4.98	5.18
H	28.03	28.83
J	0.38 Typical	
K	1.22	1.32
L	0.71	0.91
M	2.50 Typical	
N	3.86 Typical	
All Dimensions in mm		