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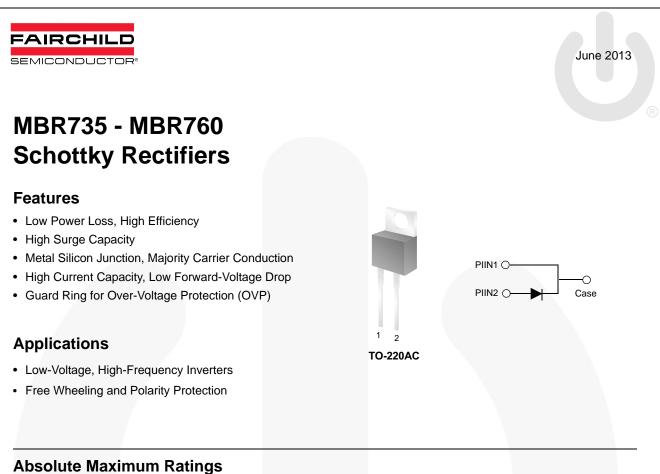


ON Semiconductor®

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Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value				Units
		735	745	750	760	
V _{RRM}	Maximum Repetitive Reverse Voltage	35	45	50	60	V
I _{F(AV)}	Average Rectified Forward Current	7.5				Α
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	150				А
T _{stg}	Storage Temperature Range	-65 to +175				°C
TJ	Operating Junction Temperature	-65 to +150				°C

Thermal Characteristics

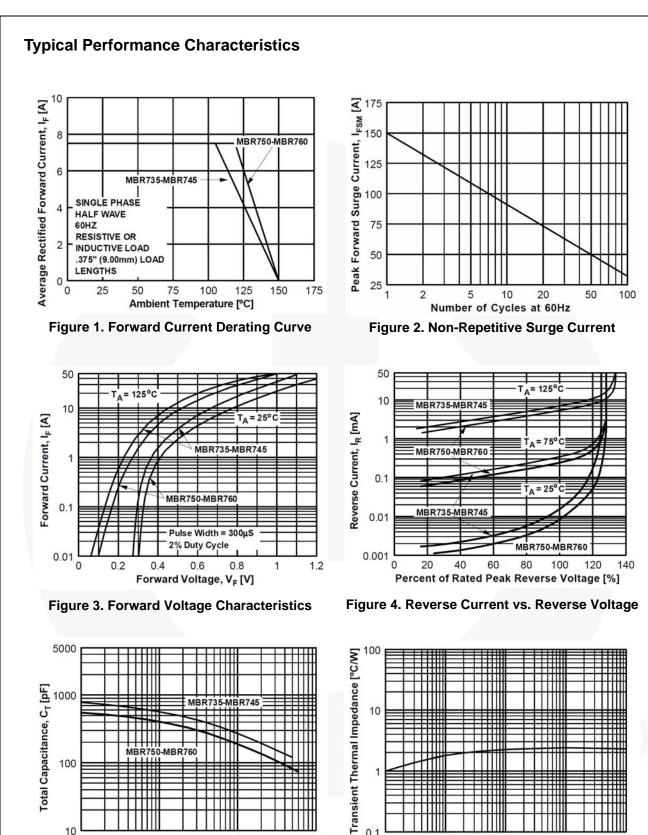
Symbol	Parameter	Value	Units
PD	Power Dissipation	2.0	W
R_{\thetaJA}	Thermal Resistance, Junction to Ambient	60	°C/W
R _{θJL}	Thermal Resistance, Junction to Lead	3.0	°C/W

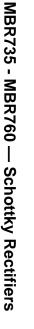
MBR735 - MBR760 — Schottky Rectifiers

Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter		Value				Units	
			735	745	750	760		
V _F		$I_F = 7.5 \text{ A}, T_C = 25^{\circ}\text{C}$		0.75		75		
	Forward Voltage	$I_F = 7.5 \text{ A}, T_C = 125^{\circ}\text{C}$	0.57		0.65		V	
		$I_{\rm F} = 15 \text{ A}, T_{\rm C} = 25^{\circ}{\rm C}$	0.84					
		$I_F = 15 \text{ A}, T_C = 125^{\circ}\text{C}$	0.72					
I _R	everse Current at rated V_R $T_C = 25^{\circ}C$		0.1		0	0.5		
	Reverse Currentatiated v _R	T _C = 125°C	15		5	0	mA	
I _{RRM}	Peak Repetitive Reverse Surge Current 2.0 μs Pulse Width, f = 1.0 kHz		1.0		0.5		A	





10 L 0.1

MBR750-MBR760

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Reverse Voltage, V_R [V]

Figure 5. Total Capacitance

10

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1



1

Pulse Duration [s]

10

HTT

0.1

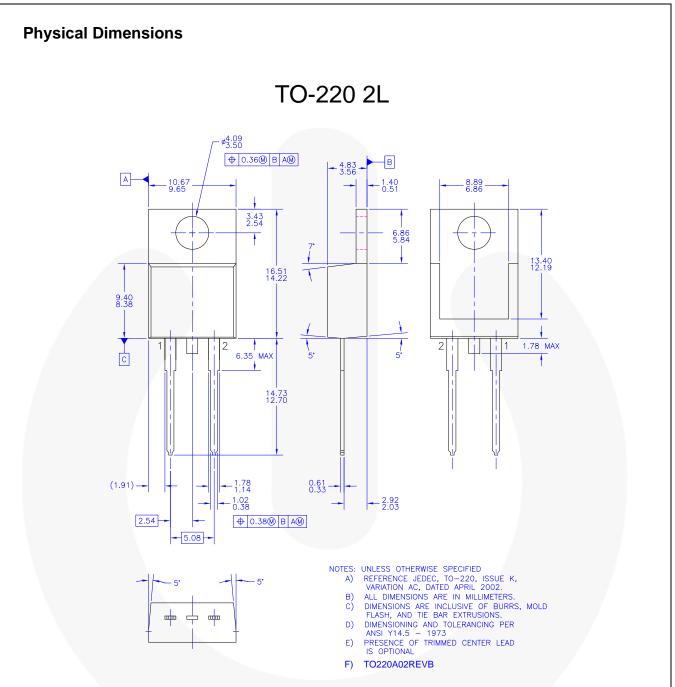
1

0.1

100

3

100





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