

• Guarding for over voltage protection.

10-220AD

Schottky Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter		Value			
		1535	1545	1550	1560	
V_{RRM}	Maximum Repetitive Reverse Voltage	35	45	50	60	V
I _{F(AV)}	Average Rectified Forward Current .375 " lead length @ $T_A = 105^{\circ}C$		15		A	
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			
TJ	Operating Junction Temperature -65 to +150			°C		

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
PD	Power Dissipation	41.7	W
$R_{_{ ext{ heta}JA}}$	Thermal Resistance, Junction to Ambient	60	°C/W
$R_{ ext{ hetaJL}}$	Thermal Resistance, Junction to Lead	3.0	°C/W

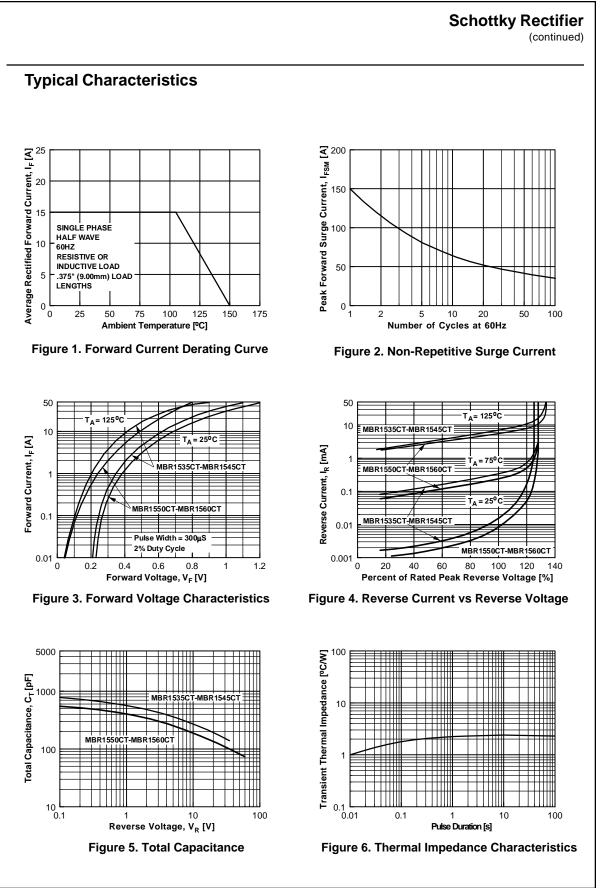
Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Device			
		1535	1545	1550	1560	Units
V _F	Forward Voltage $I_{F = 7.5 \text{ A}, T_C = 25^{\circ}\text{C}}$ $I_{F = 7.5 \text{ A}, T_C = 125^{\circ}\text{C}}$ $I_{F = 15 \text{ A}, T_C = 25^{\circ}\text{C}}$ $I_{F = 15 \text{ A}, T_C = 125^{\circ}\text{C}}$	- 0.5 0.8 0.7	34	0. 0.	-	V V V V
I _R	Reverse Current @ rated V _R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	0.1 1.0 15 50		-	mA mA	
I _{RRM}	Peak Repetitive Reverse Surge Current 2.0 us Pulse Width, f = 1.0 KHz		1.0		0.5	

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MBR1535CT - MBR1560CT, Rev. C

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Definition of Terms

Datasheet Identification	Product Status	Definition
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