

• Guarding for over voltage protection.

## 10-220AD

# **Schottky Rectifiers**

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Value			
		1535	1545	1550	1560	
$V_{RRM}$	Maximum Repetitive Reverse Voltage	35	45	50	60	V
I <sub>F(AV)</sub>	Average Rectified Forward Current .375 " lead length @ $T_A = 105^{\circ}C$		15		A	
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	150		А		
T <sub>stg</sub>	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

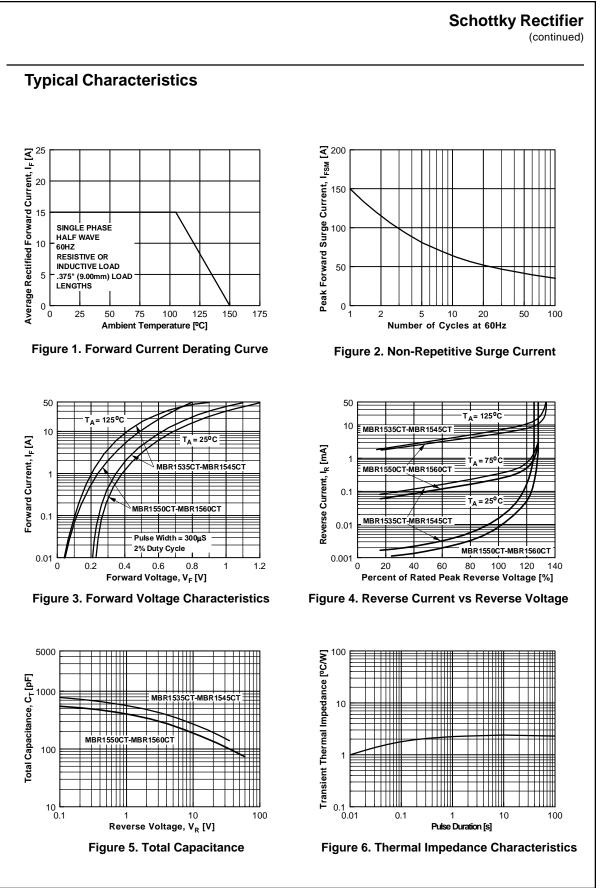
### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Device			
		1535	1545	1550	1560	Units
V <sub>F</sub>	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 <sub>R</sub>	Reverse Current @ rated V <sub>R</sub> $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	0.1 1.0 15 50		-	mA mA	
I <sub>RRM</sub>	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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