

# Schottky Rectifiers

• Guard ring for over voltage protection.

Absolute Maximum Ratings* T <sub>a</sub> =	25°C unless otherwise noted
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Symbol	Parameter	Value				Units
		2035CT	2045CT	2050CT	2060CT	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	35	45	50	60	V
I <sub>F(AV)</sub>	Average Rectified Forward Current .375 " lead length @ T <sub>A</sub> = 135°C	20			А	
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			°C	
TJ	Operating Junction Temperature	-65 to +150			°C	

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

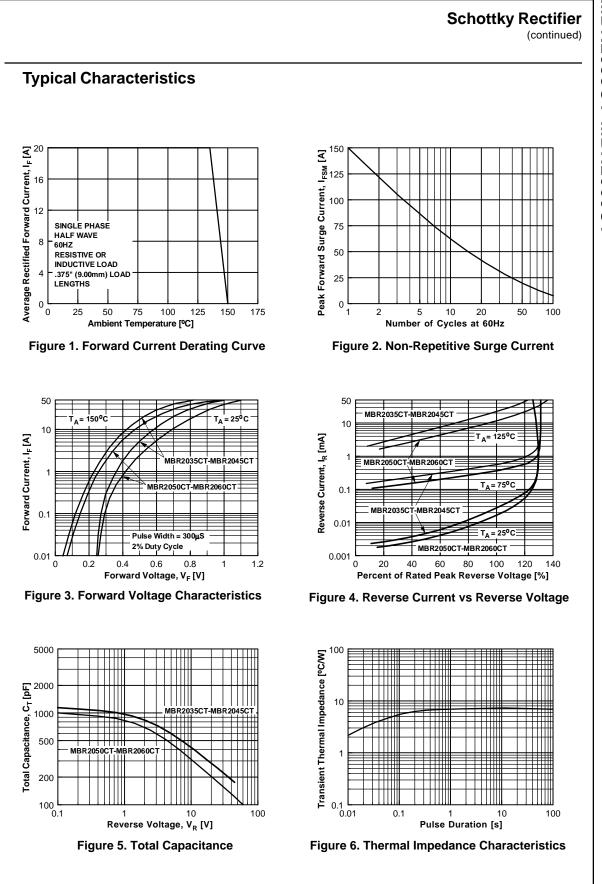
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	2.0	W
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient *	60	°C/W
R <sub>eJL</sub>	Thermal Resistance, Junction to Lead	2.0	°C/W

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

Symbol	Parameter	Device				Units
		2035CT	2045CT	2050CT	2060CT	
V <sub>F</sub>	Forward Voltage $I_{F=}10 \text{ A}, T_{C} = 25^{\circ}\text{C}$ $I_{F=}10 \text{ A}, T_{C} = 125^{\circ}\text{C}$ $I_{F=}20 \text{ A}, T_{C} = 25^{\circ}\text{C}$ $I_{F=}20 \text{ A}, T_{C} = 125^{\circ}\text{C}$	0.57 0.84 0.72		0.80 0.70 0.95 0.85		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 15		0.15 150		mA mA
I <sub>RRM</sub>	Peak Repetitive Reverse Surge Current 2.0 us Pulse Width, f = 1.0 KHz	1.0		0.5		A

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MBR2035CT-MBR2060CT

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