

SHINDENGEN

Super Fast Recovery Rectifiers

Single

SF5L60

600V 5A

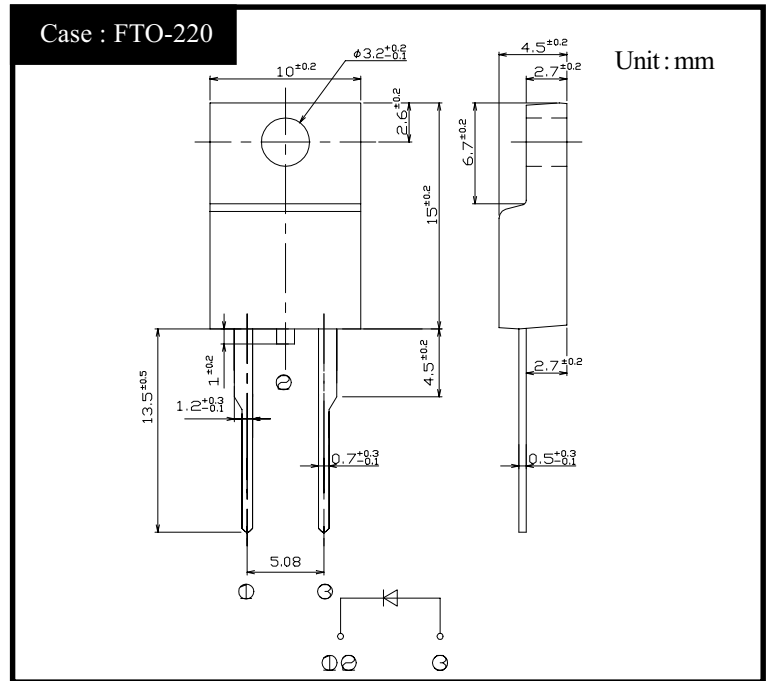
FEATURES

- High voltage
- trr50ns
- Fully Isolated Molding
- Dielectric strength 2kV guaranteed

APPLICATION

- PFC
- Switching power supply
- Free Wheel
- CTV+B output, lighting

OUTLINE DIMENSIONS



RATINGS

- Absolute Maximum Ratings (If not specified $T_c=25^\circ\text{C}$)

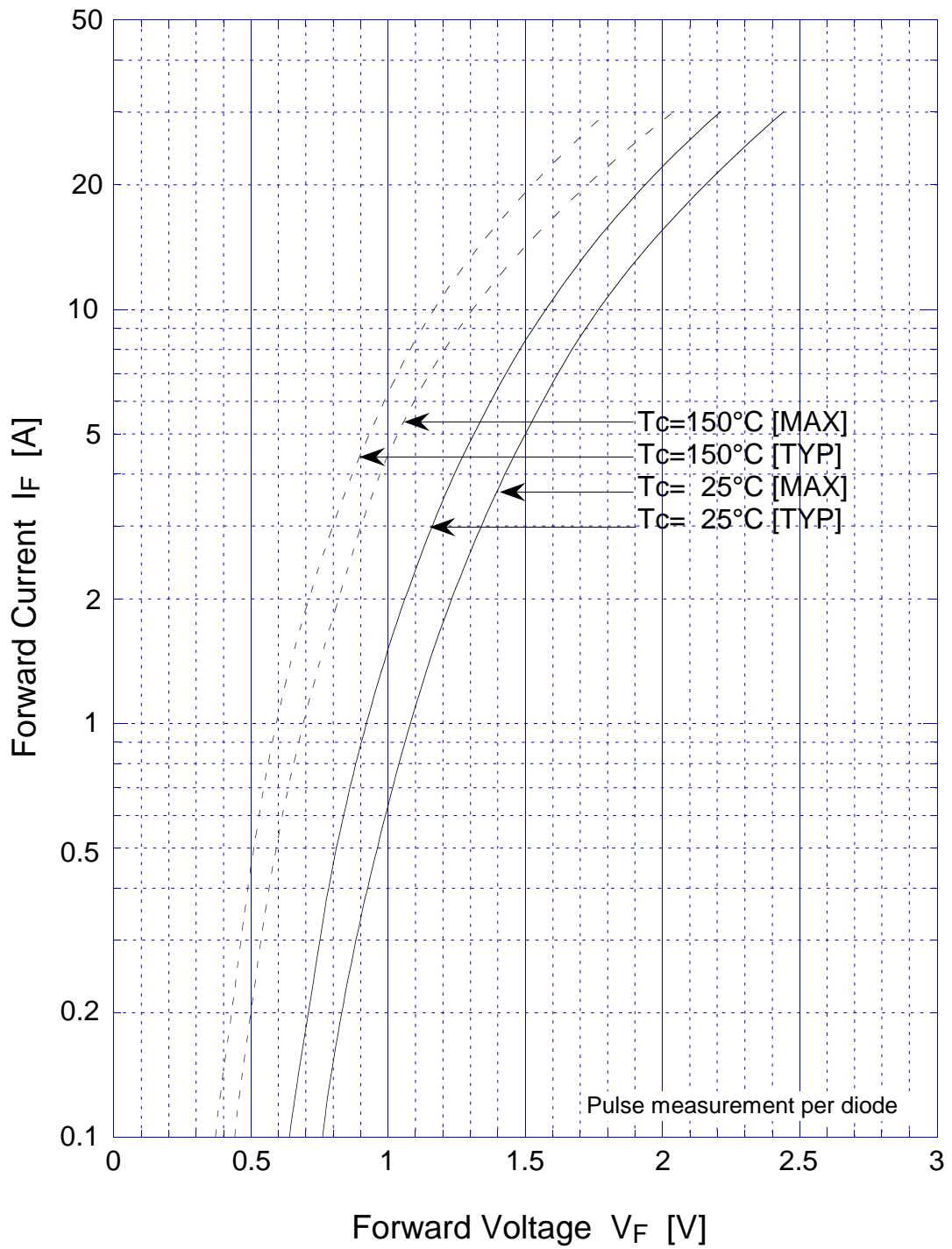
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~150	$^\circ\text{C}$
Operating Junction Temperature	T_j		150	$^\circ\text{C}$
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, $T_c=131^\circ\text{C}$	5	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	100	A
Dielectric Strength	V_{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque:0.3N·m)	0.5	N·m

- Electrical Characteristics (If not specified $T_c=25^\circ\text{C}$)

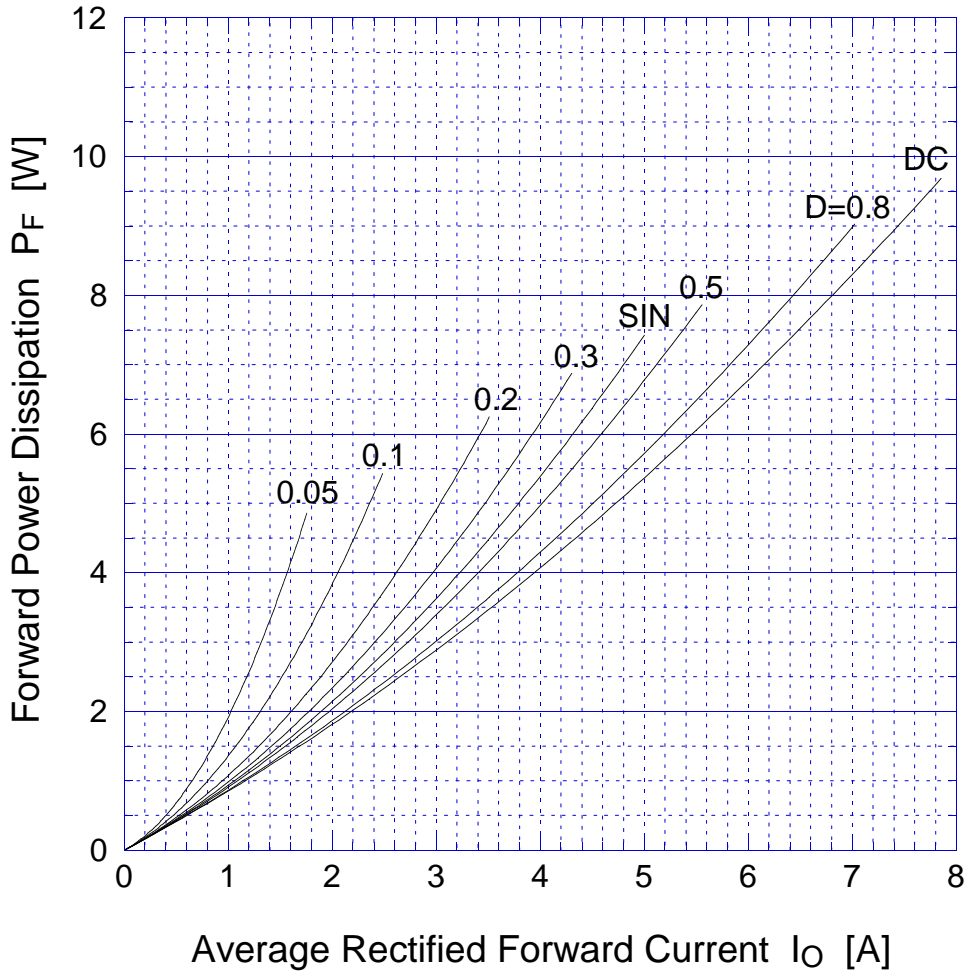
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=5\text{A}$, Pulse measurement	Max.1.5	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5\text{A}$, $I_R=1\text{A}$	Max.50	ns
Thermal Resistance	θ_{jc}	junction to case	Max.2.5	$^\circ\text{C}/\text{W}$

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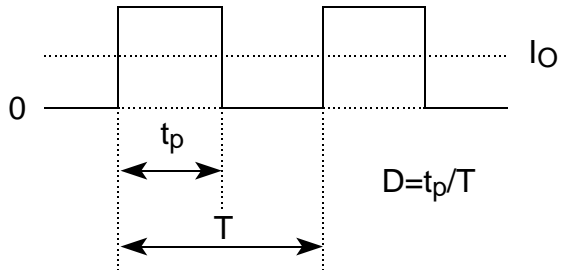
Forward Voltage



SF5L60 Forward Power Dissipation

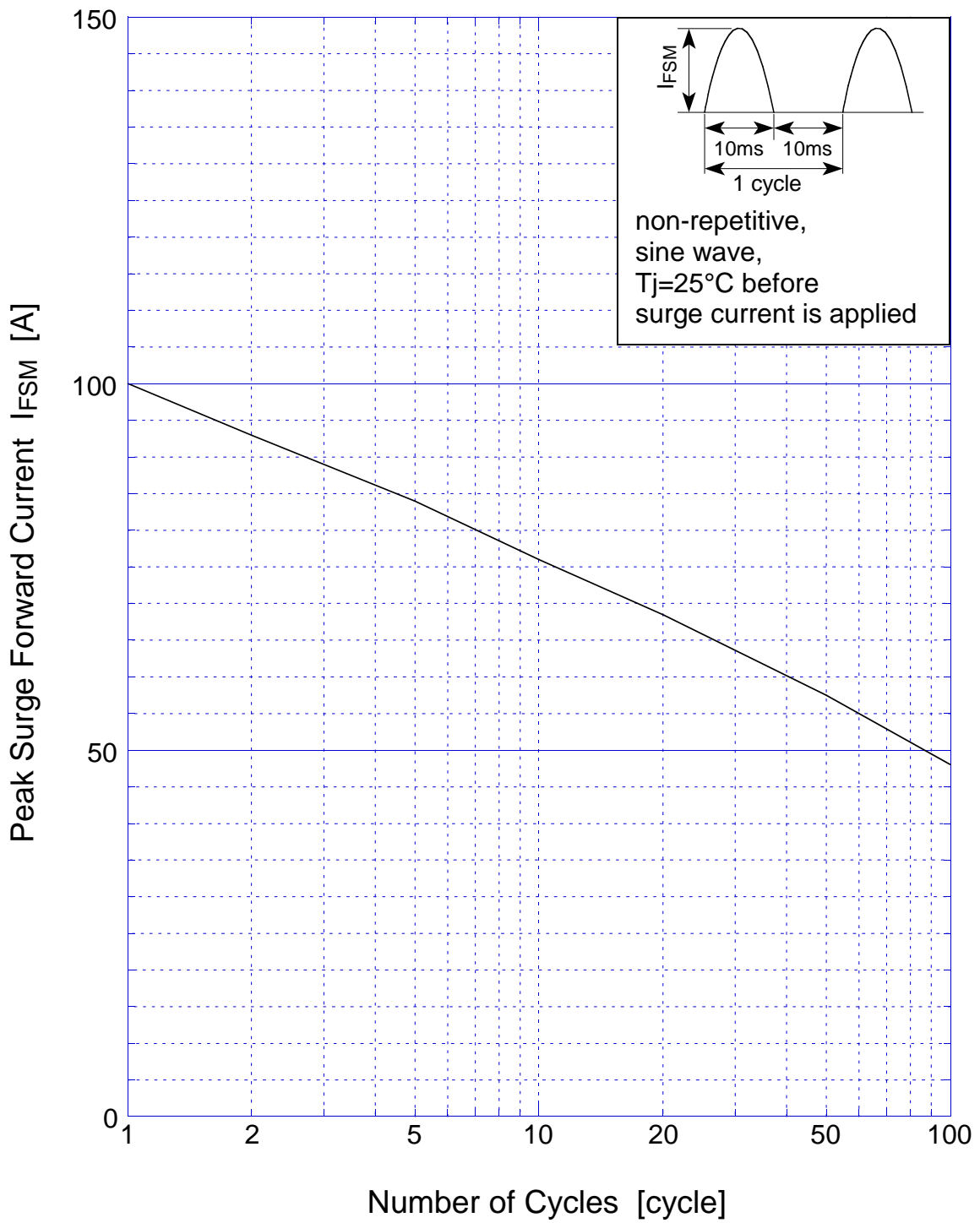


$T_j = 150^\circ\text{C}$



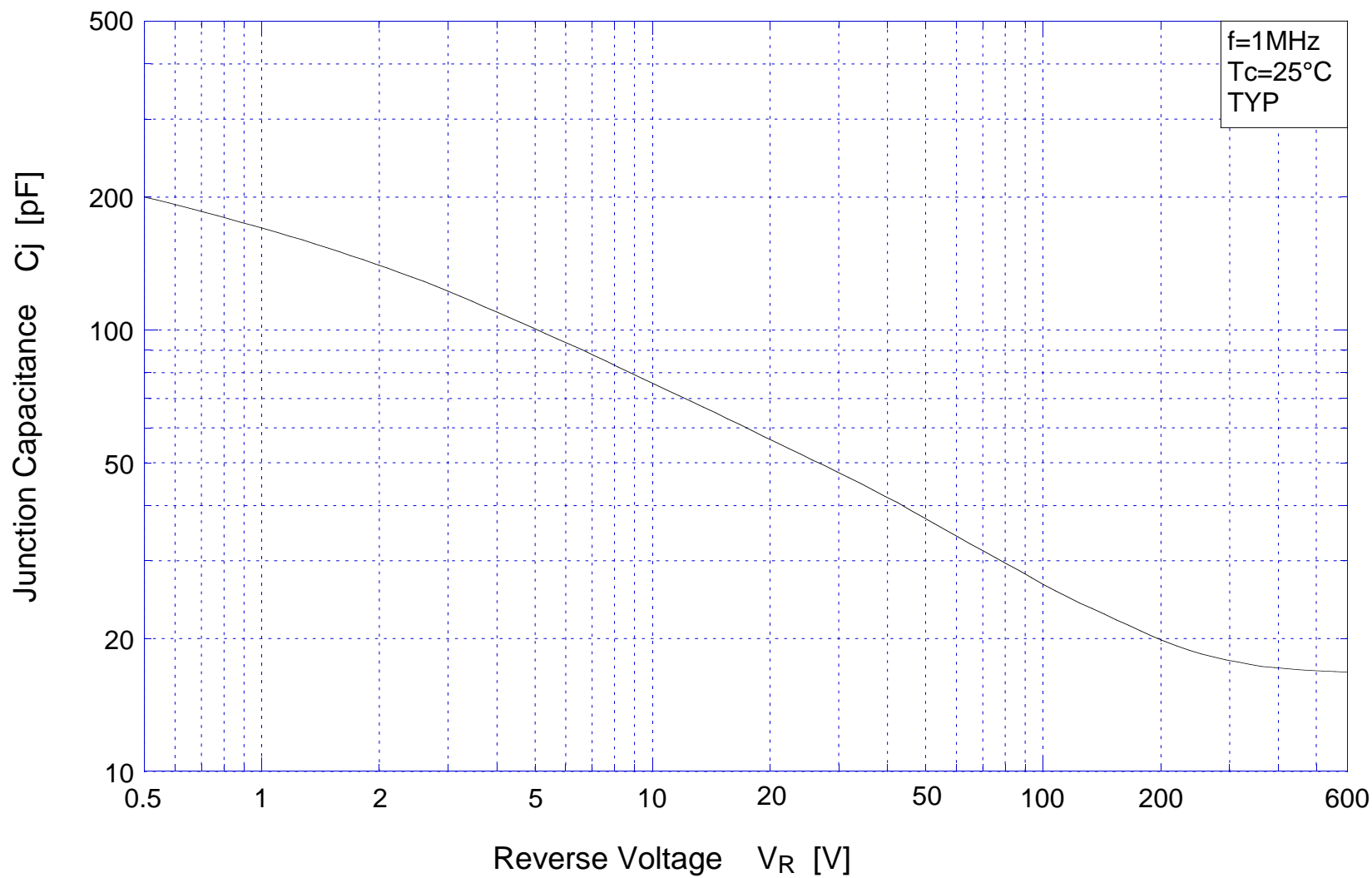
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Peak Surge Forward Capability



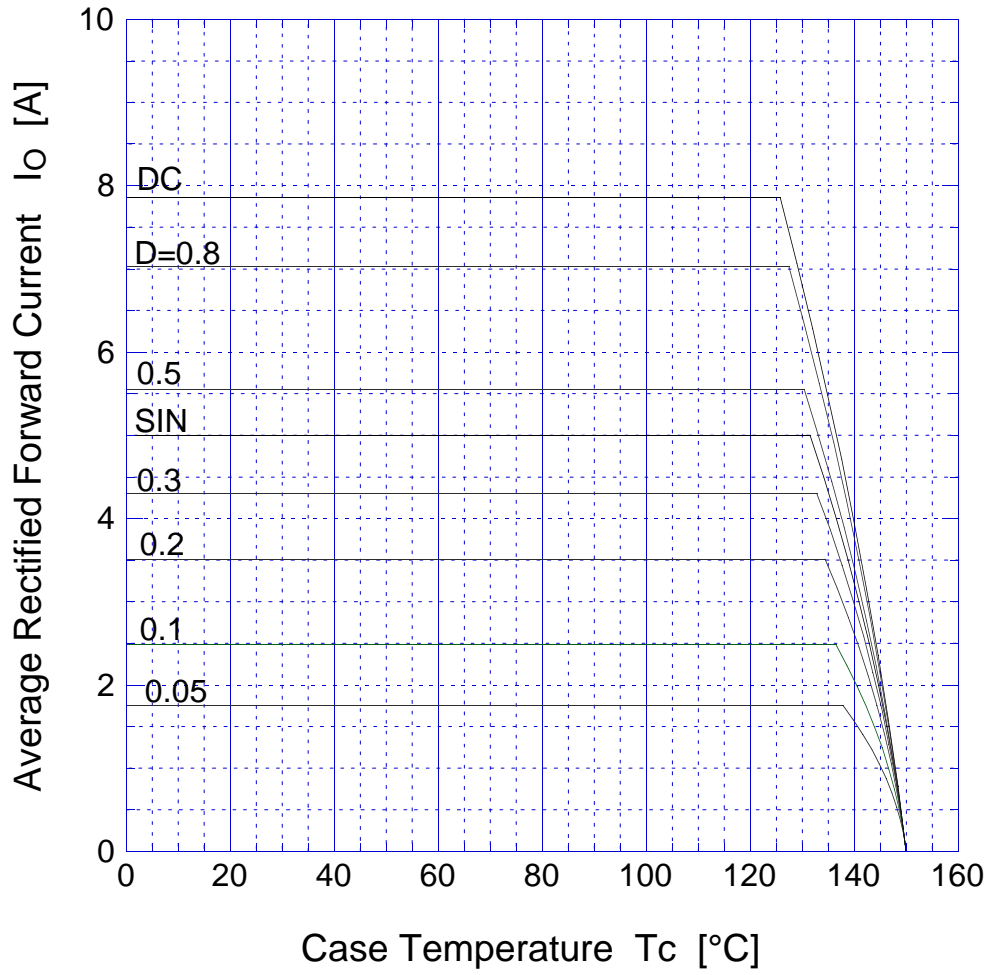
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Junction Capacitance

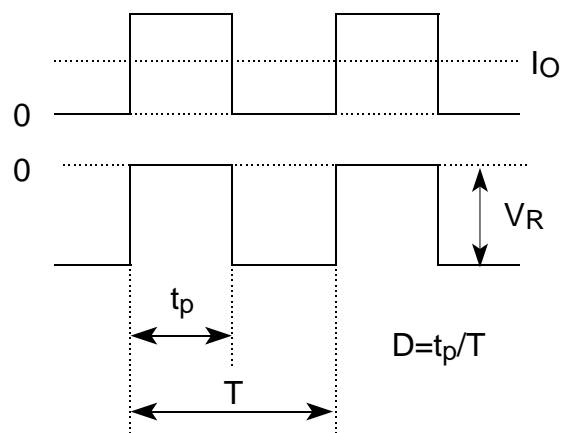


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Derating Curve



$$V_R = V_{RM}$$



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.