

SHINDENG

Super Fast Recovery Rectifiers

Single

SF5L60

600V 5A

FEATURES

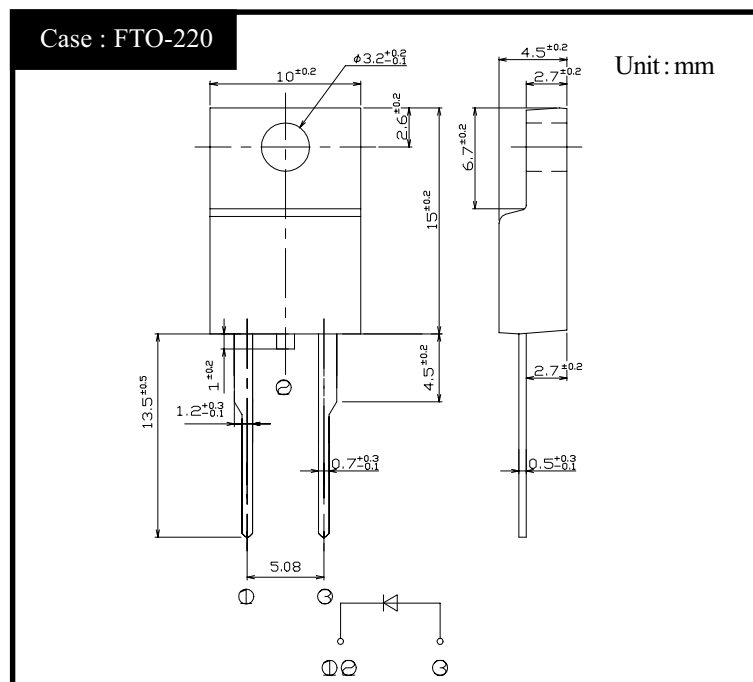
- High voltage
- trr50ns
- Fully Isolated Molding
- Dielectric strength 2kV guaranteed

APPLICATION

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

OUTLINE DIMENSIONS

Case : FTO-220



RATINGS

● Absolute Maximum Ratings (If not specified Tc=25°C)

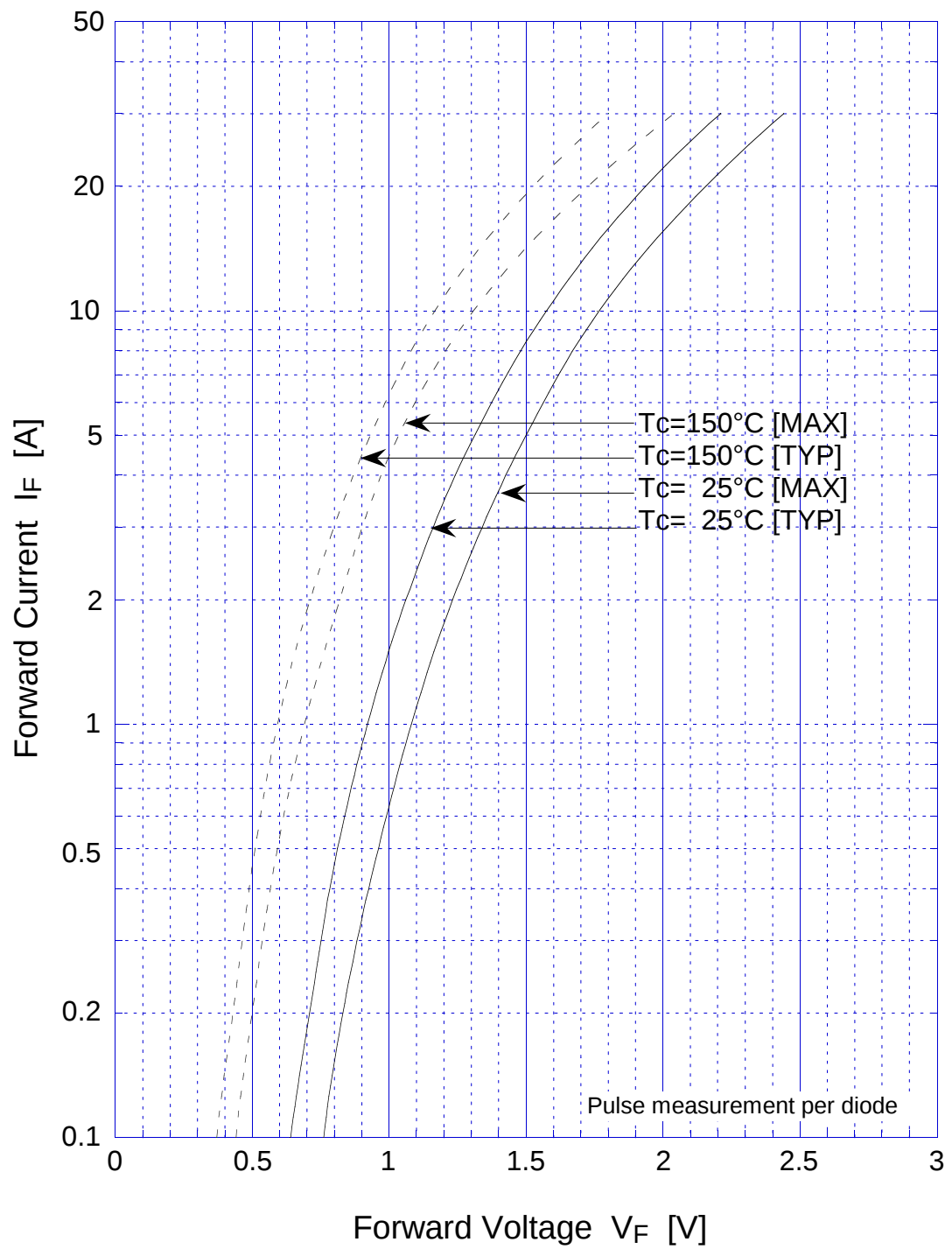
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Tc=131°C	5	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	100	A
Dielectric Strength	Vdis	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 Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=5A, Pulse measurement	Max.1.5	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max.50	ns
Thermal Resistance	θjc	junction to case	Max.2.5	°C/W

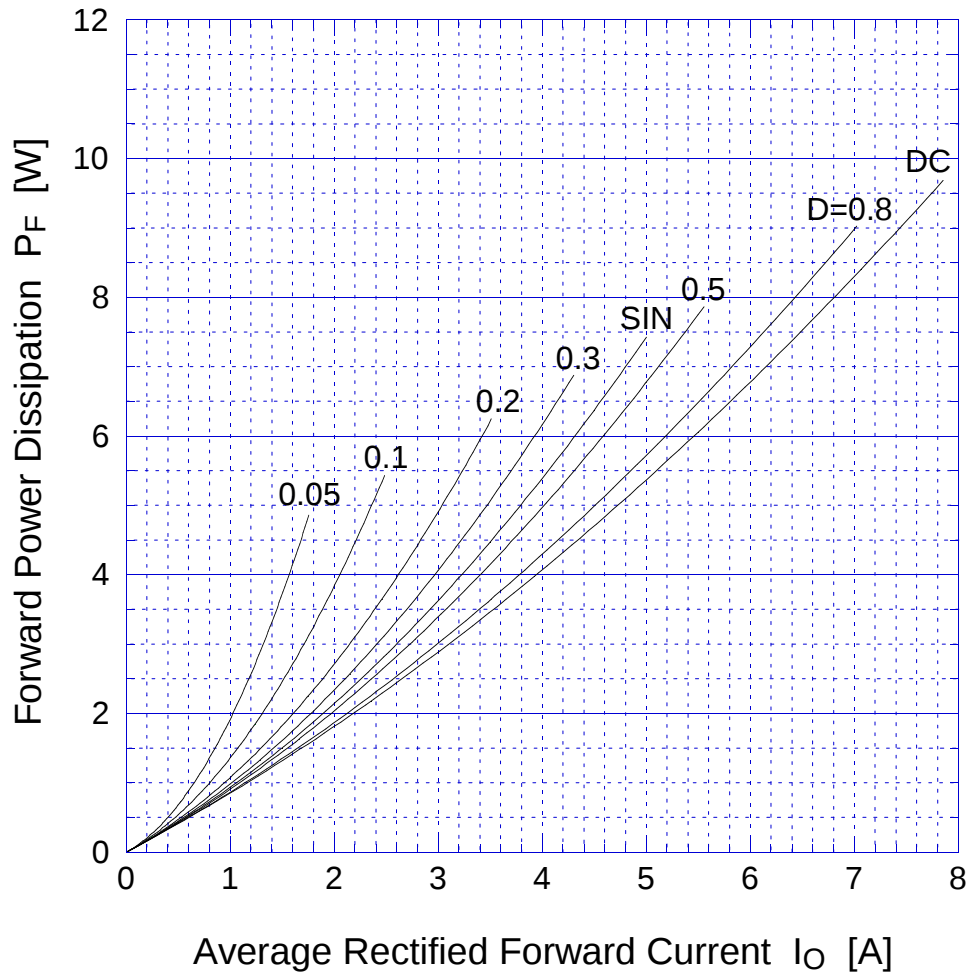
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Forward Voltage

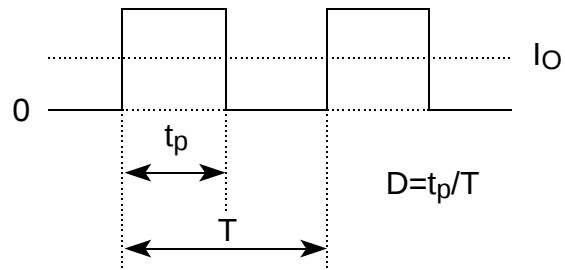


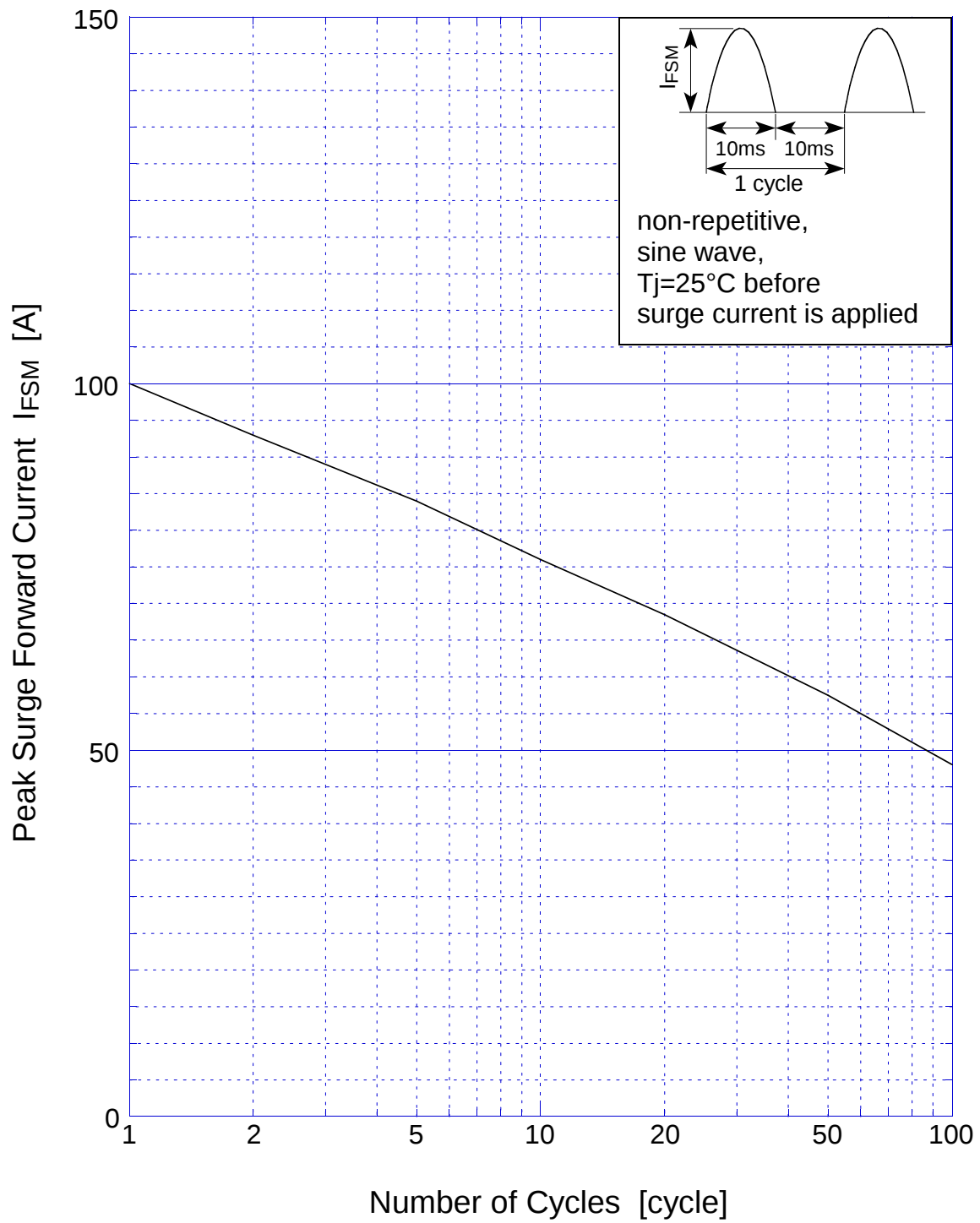
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Forward Power Dissipation



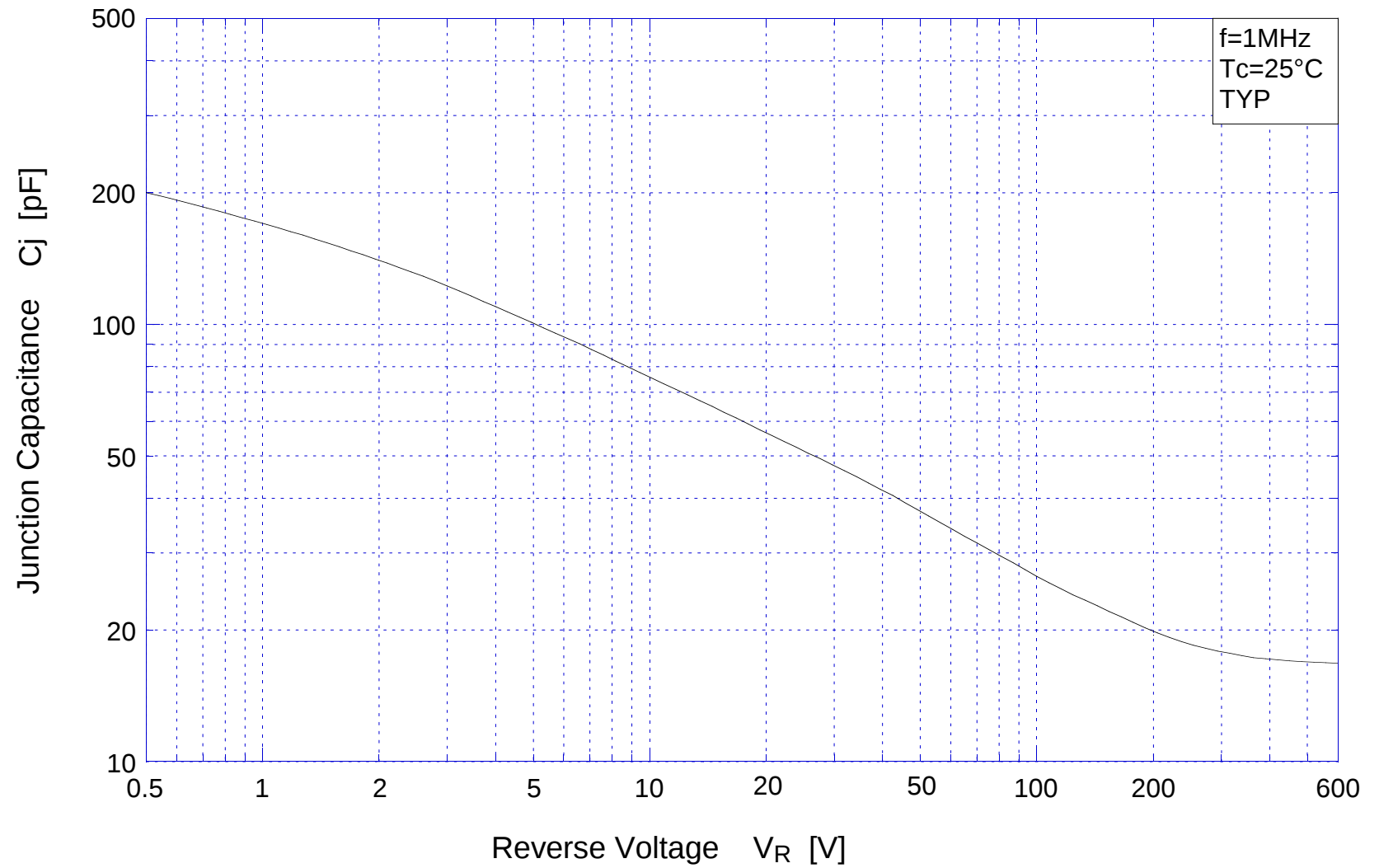
$T_j = 150^\circ\text{C}$





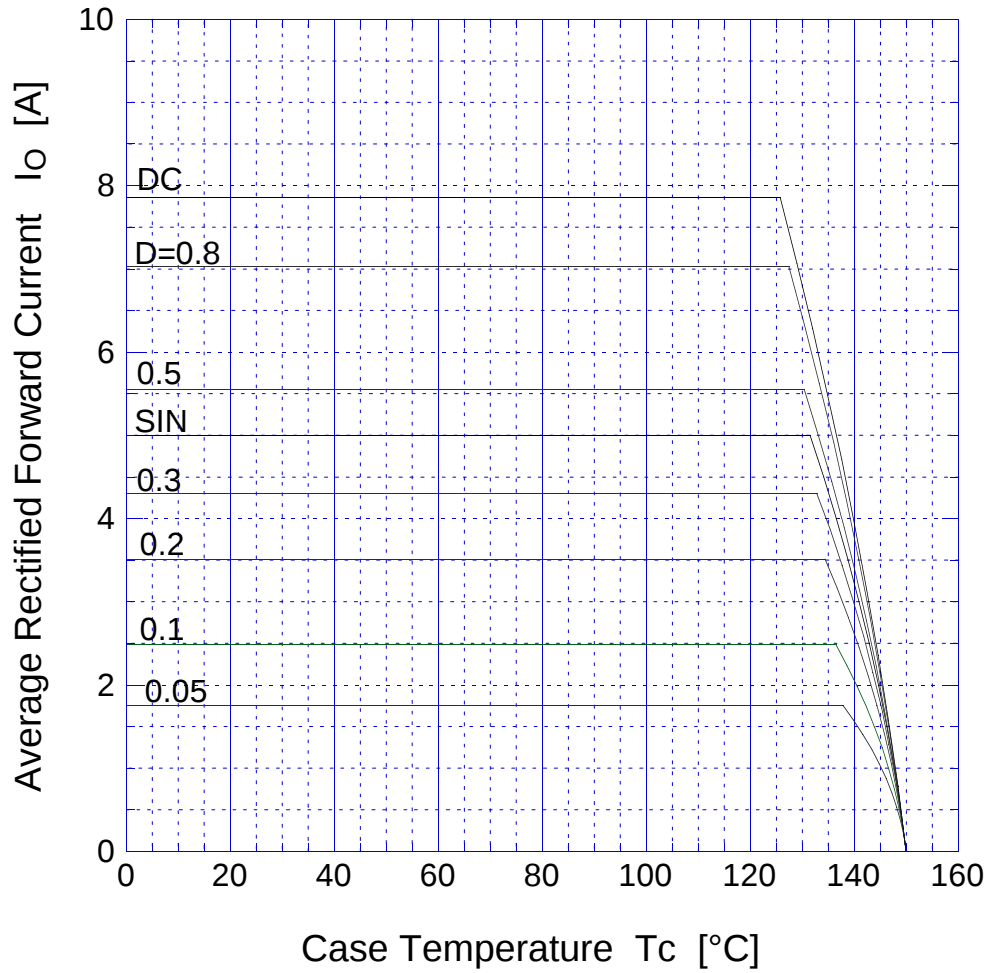
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Junction Capacitance



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Derating Curve



$$V_R = V_{RM}$$

