

SHINDENG

Super Fast Recovery Rectifiers

Single

D5L60

600V 5A

FEATURES

- High Voltage
- trr50ns
- Fully Isolated Molding
- Dielectric strength 1.5kV guaranteed

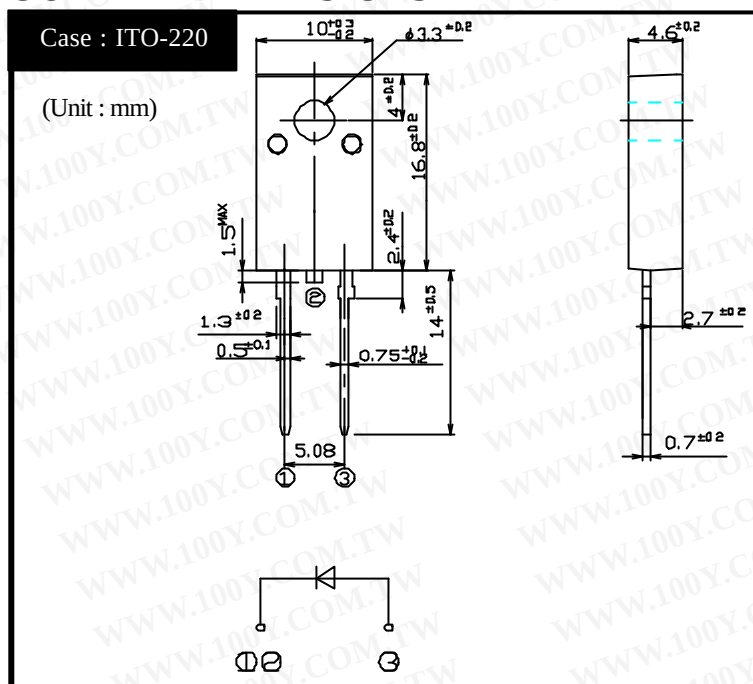
APPLICATION

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

OUTLINE DIMENSIONS

Case : ITO-220

(Unit : mm)



RATINGS

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

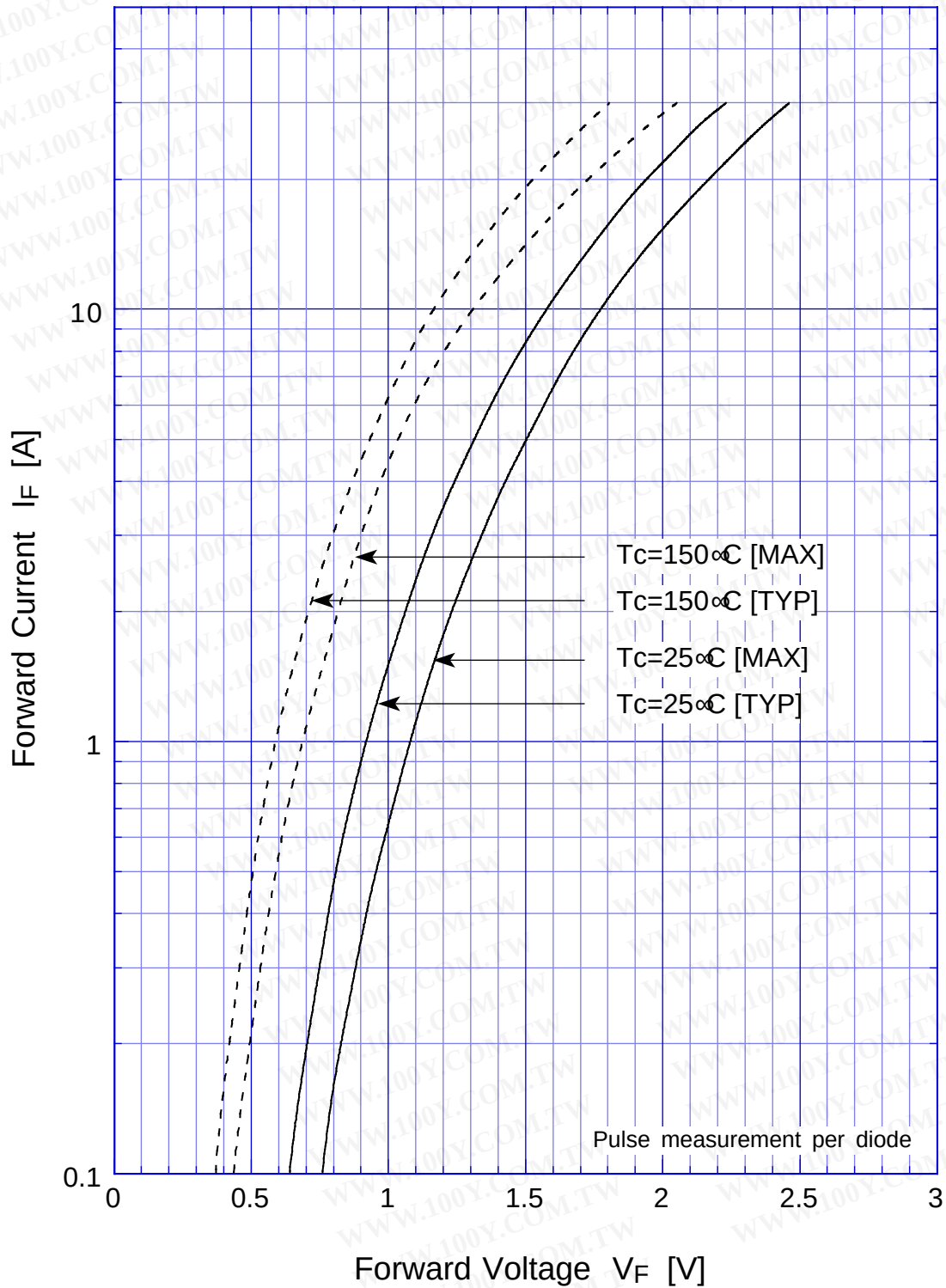
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tc=123°C	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	100	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	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	V _F	I _F =5A, Pulse measurement	Max.1.5	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A	Max.50	ns
Thermal Resistance	θ _{jc}	junction to case	Max.3.5	°C/W

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Forward Voltage



勝特力材料 886-3-5753170

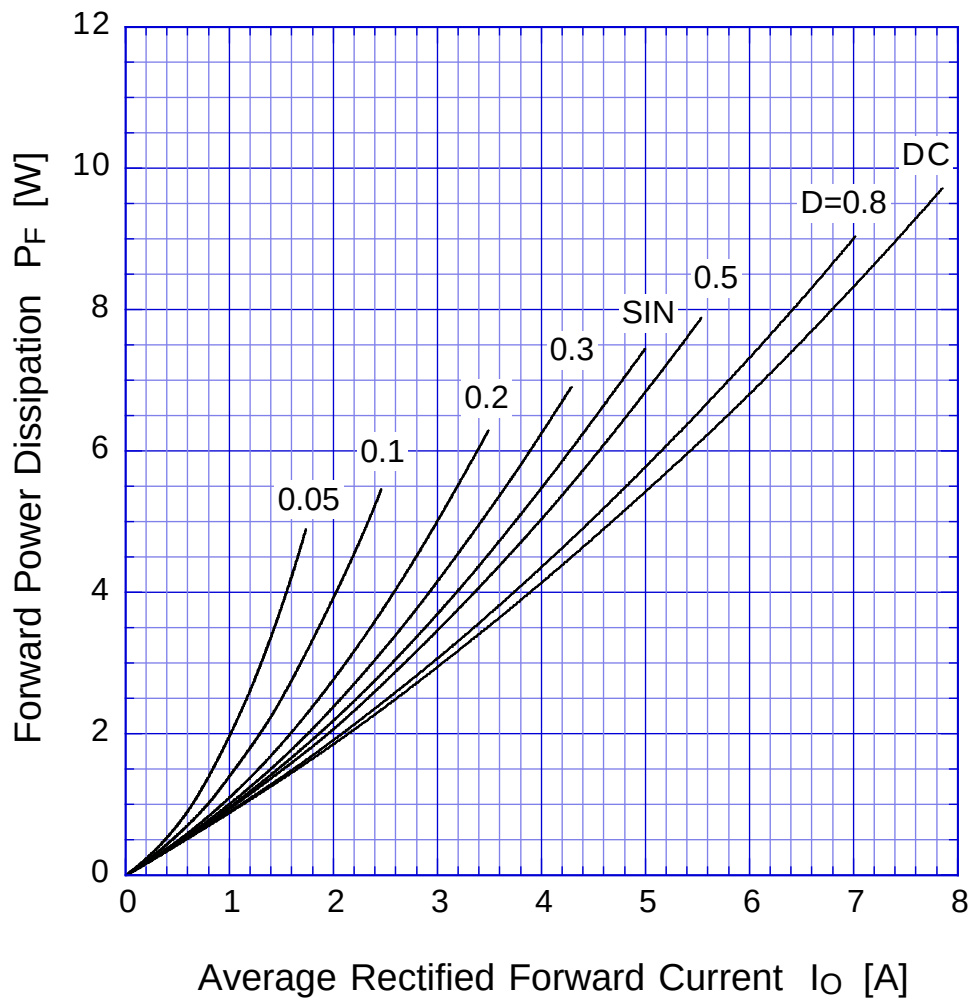
勝特力电子(上海) 86-21-54151736

勝特力电子(深圳) 86-755-83298787

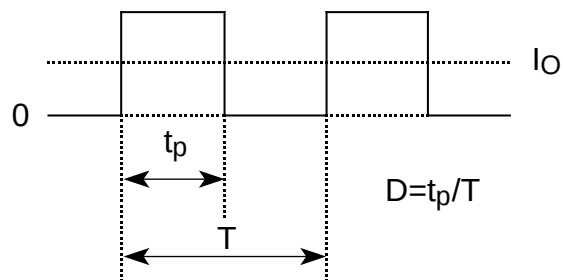
[Http://www.100y.com.tw](http://www.100y.com.tw)

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Forward Power Dissipation



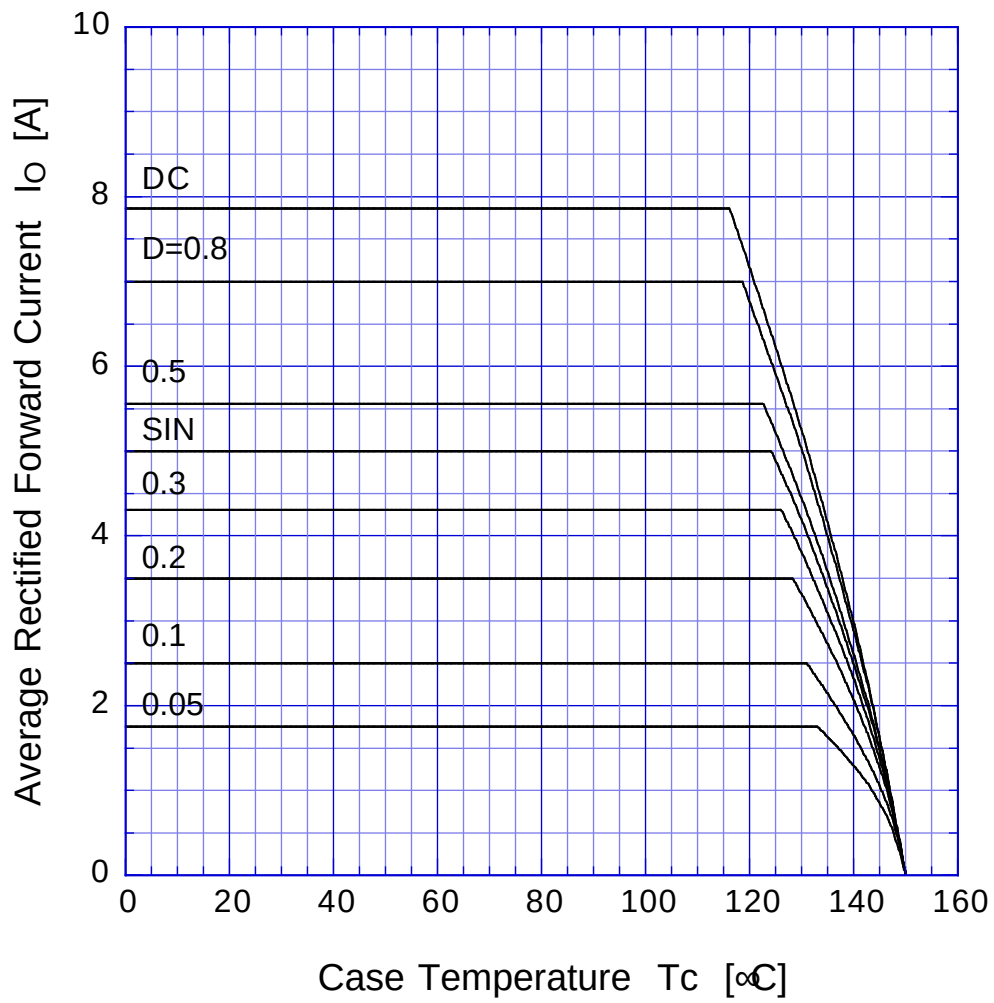
$T_j = 150^\circ\text{C}$



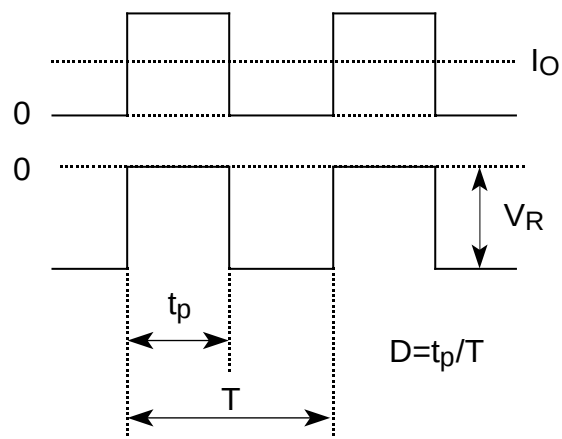
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Derating Curve

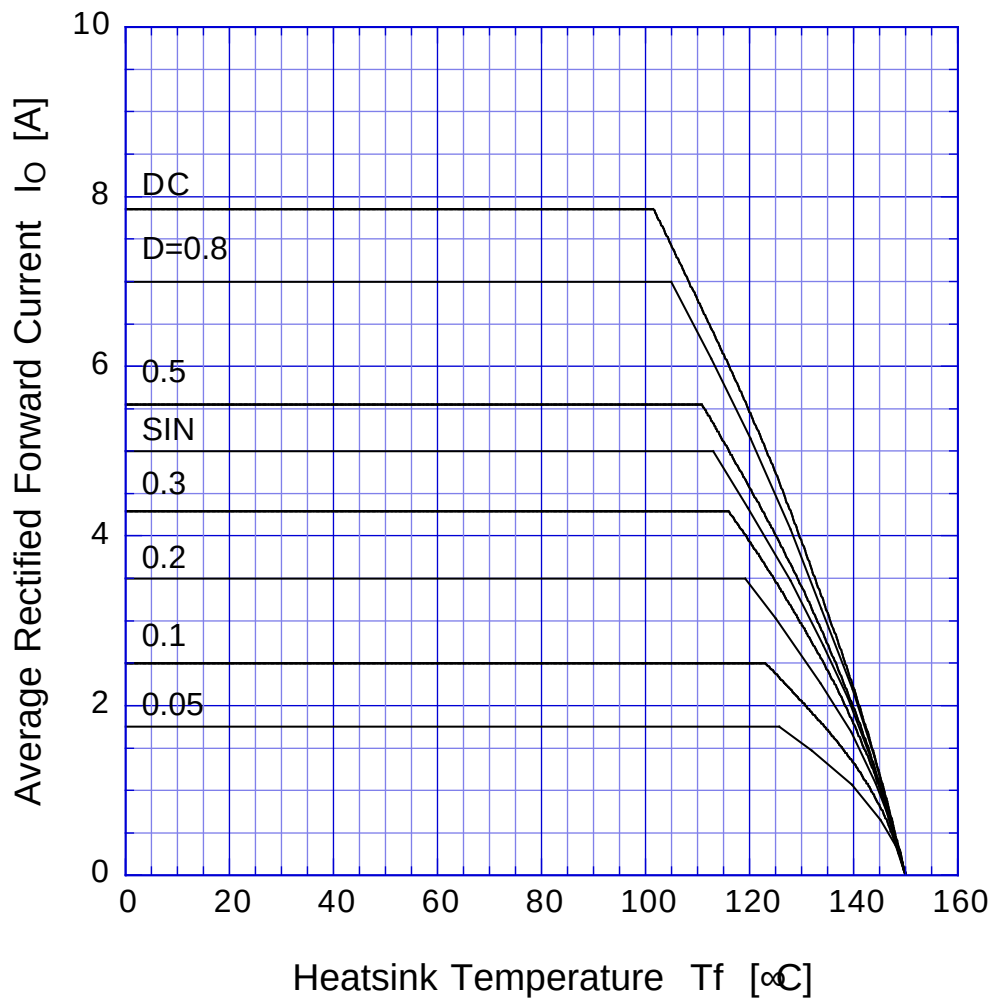


$$V_R = V_{RM}$$

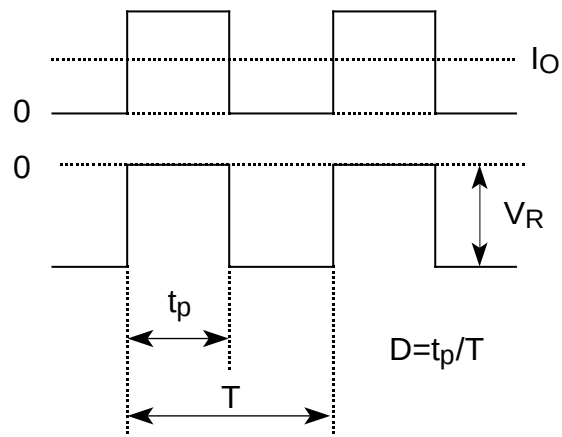


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Derating Curve

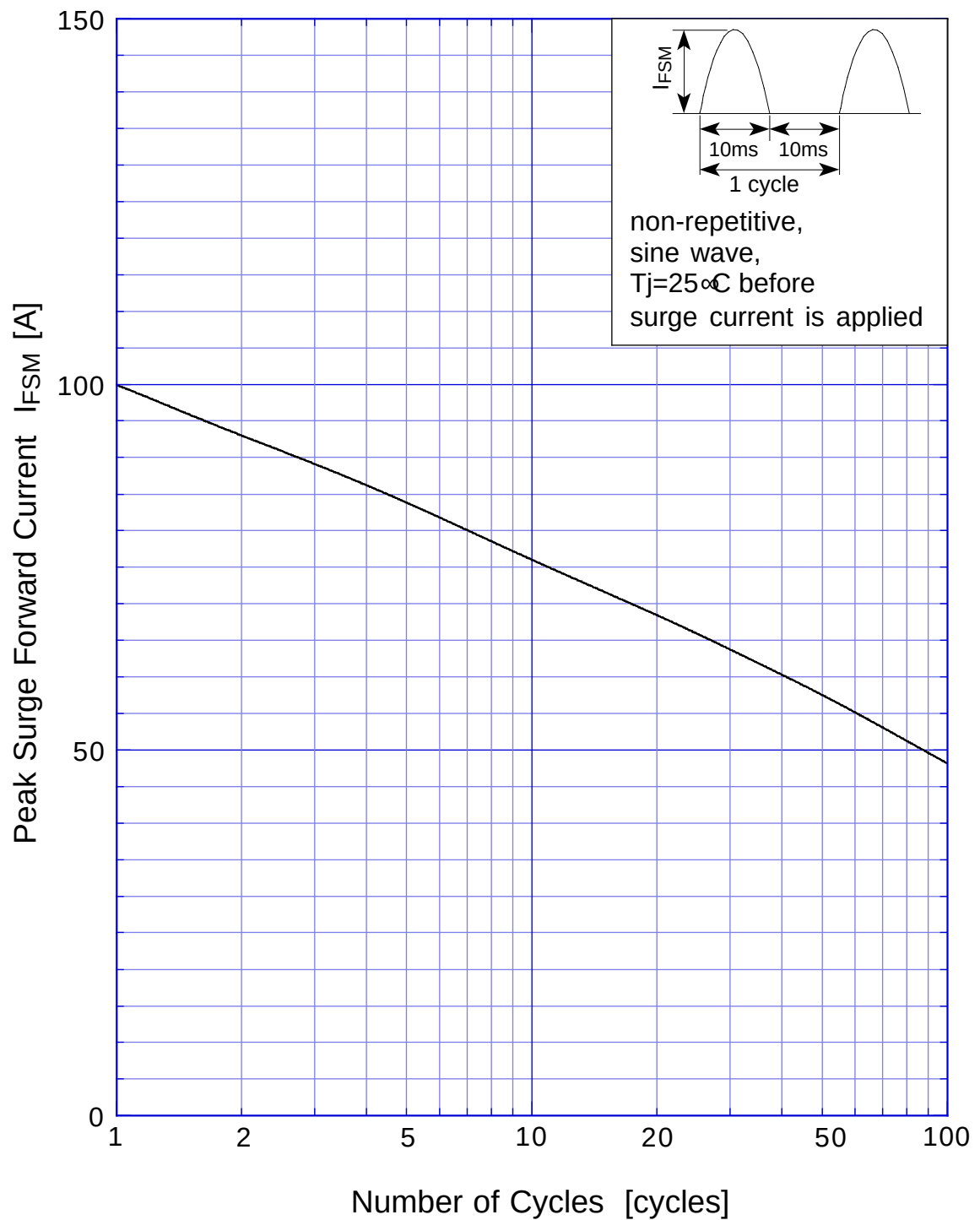


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



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D5L60 Junction Capacitance

