

SHINDENGEN

Super Fast Recovery Rectifiers

Single

S2L60

600V 1.5A

FEATURES

- High voltage super FRD
- Low noise
- trr50ns
- Applicable to Automatic Insertion

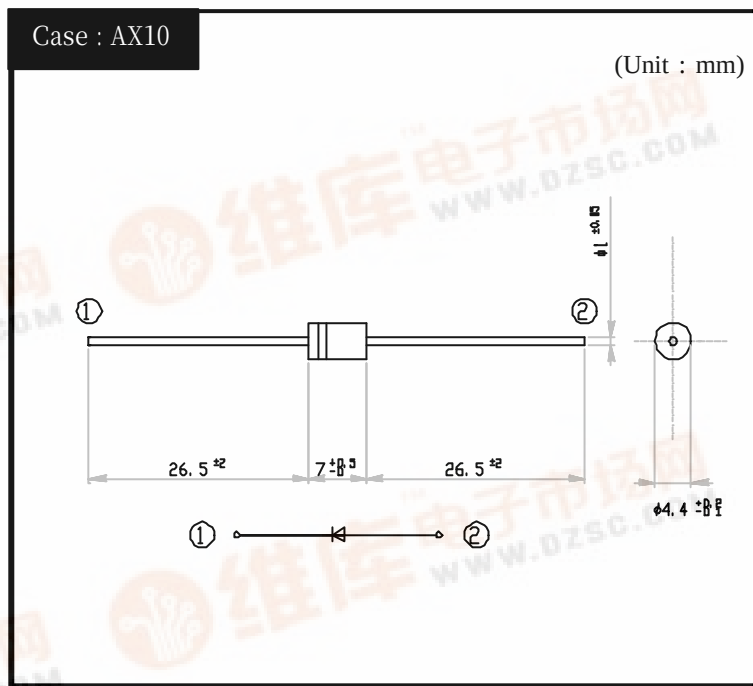
APPLICATION

- PFC
- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment

OUTLINE DIMENSIONS

Case : AX10

(Unit : mm)



RATINGS

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

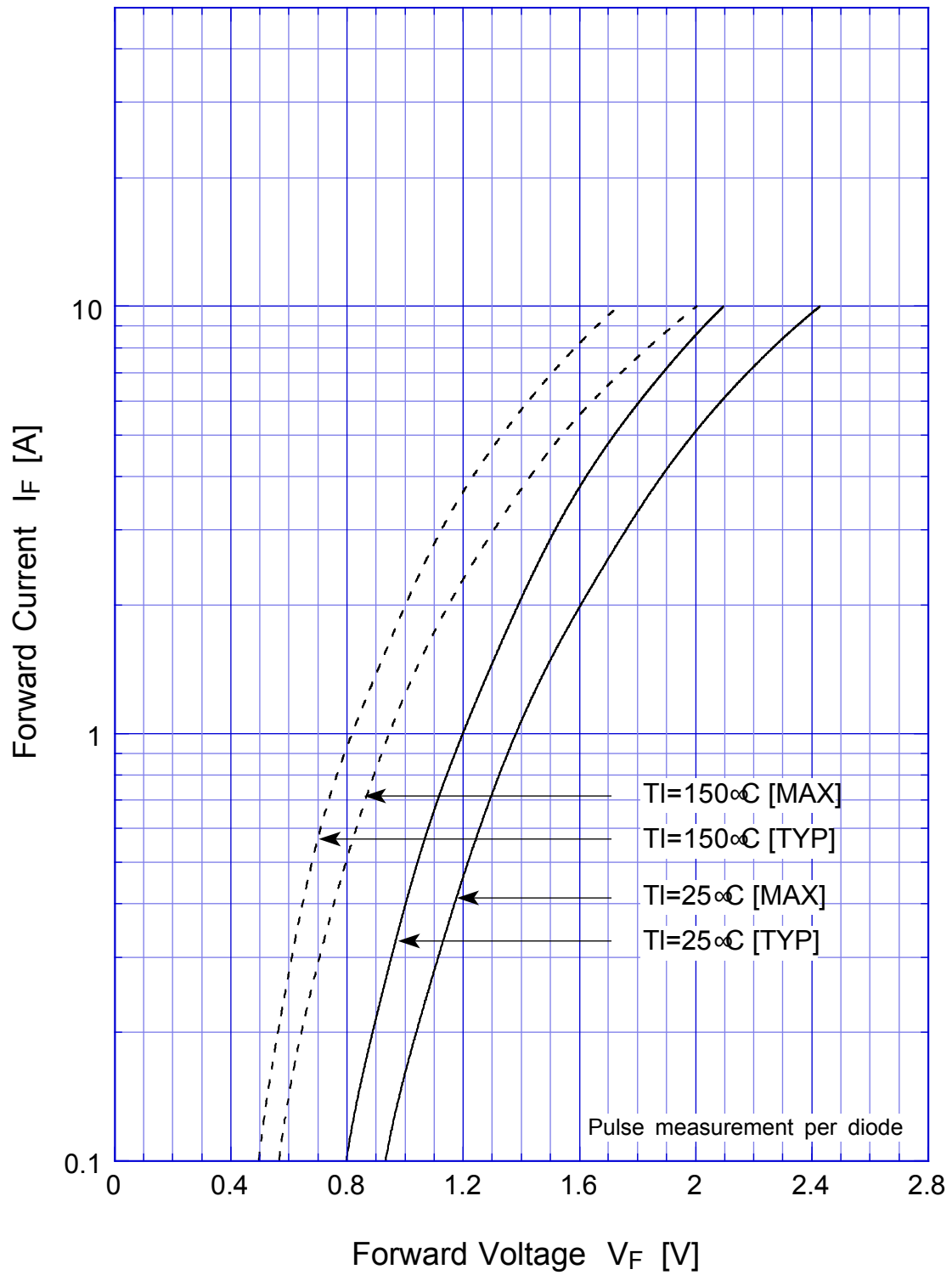
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Ta=25°C	1.2	A
		50Hz sine wave, R-load, Tl=125°C	1.5	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	50	A

● Electrical Characteristics (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =1.5A, 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 _{jl}	junction to lead	Max.12	°C/W
	θ _{ja}	junction to ambient	Max.83	

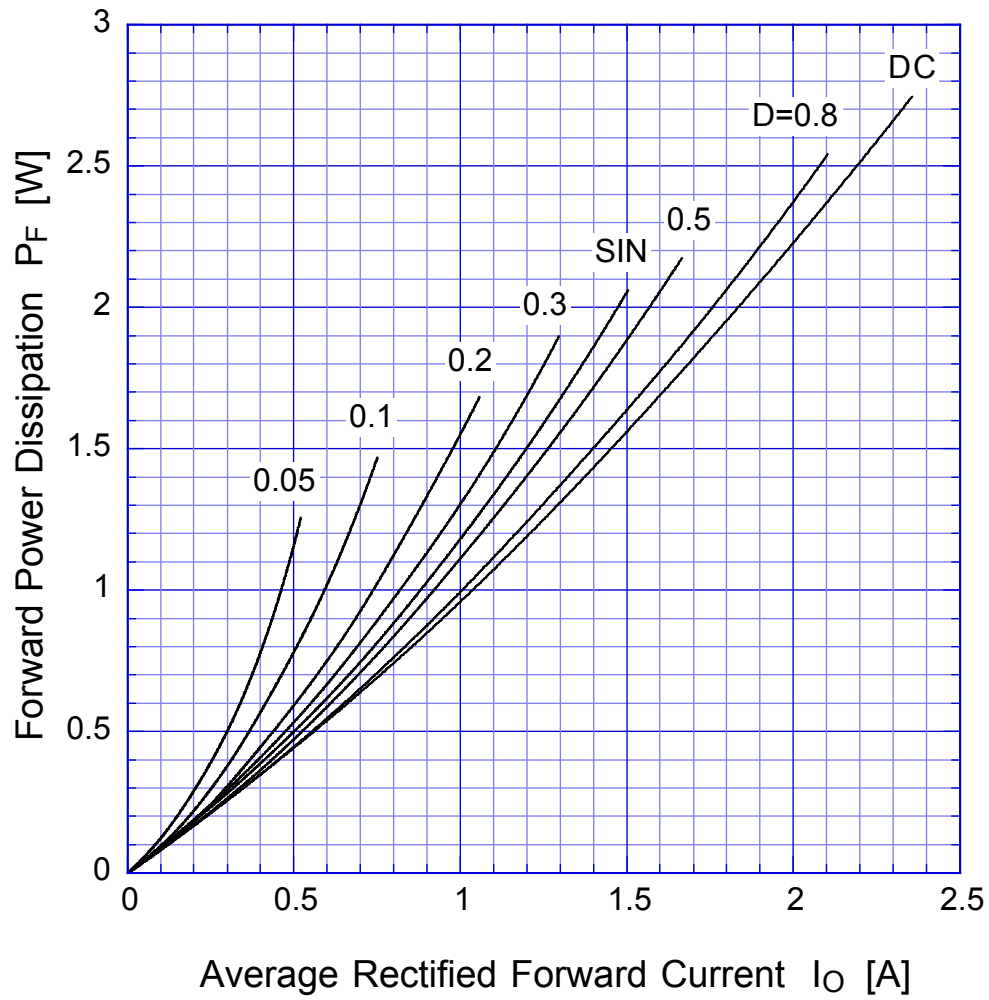
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Forward Voltage

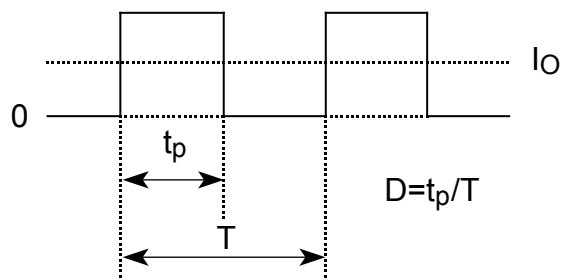


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Forward Power Dissipation

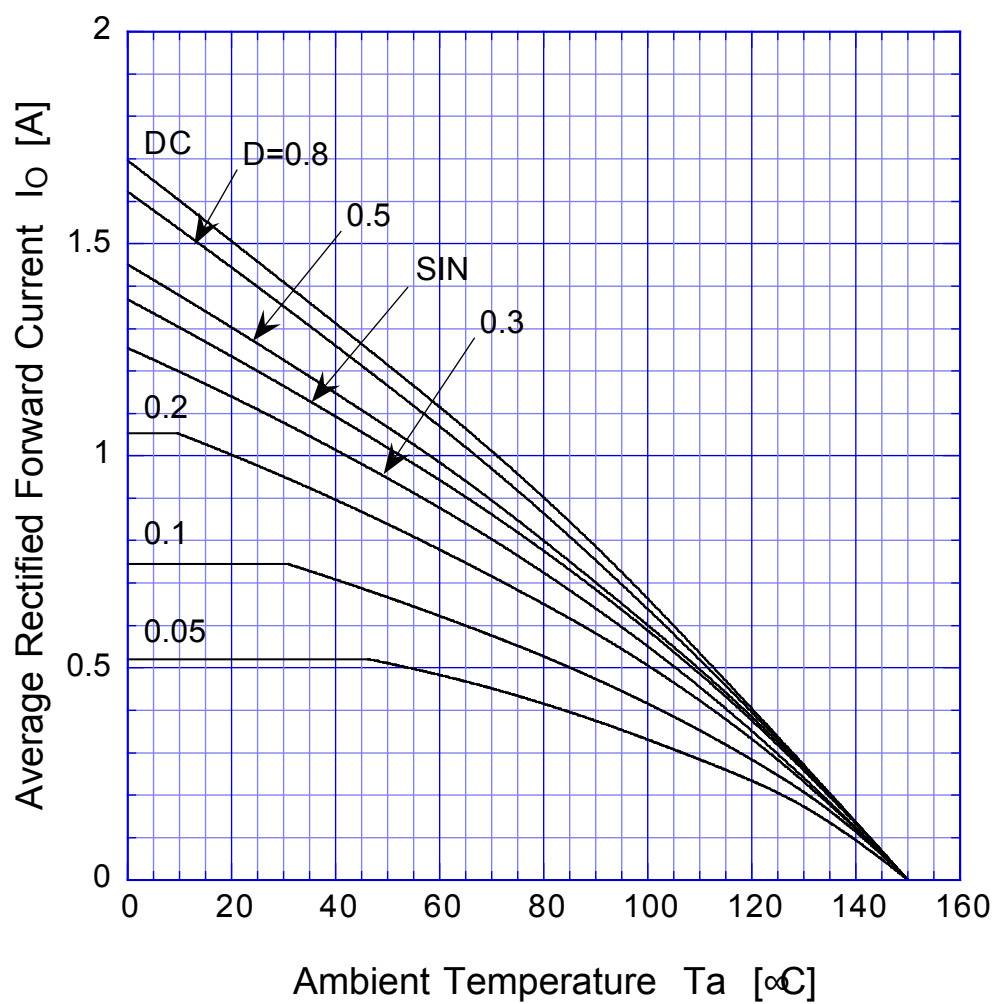


$T_j = T_{jmax}$

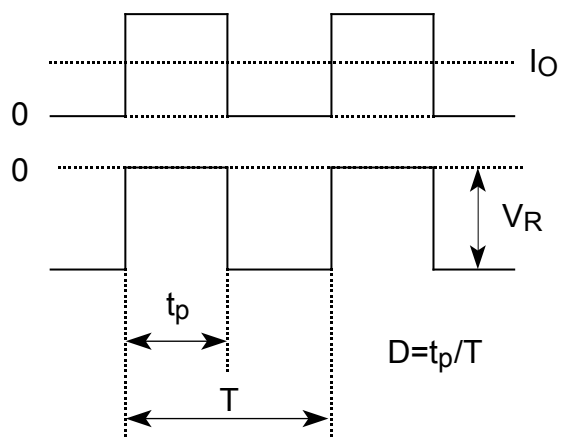


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Derating Curve

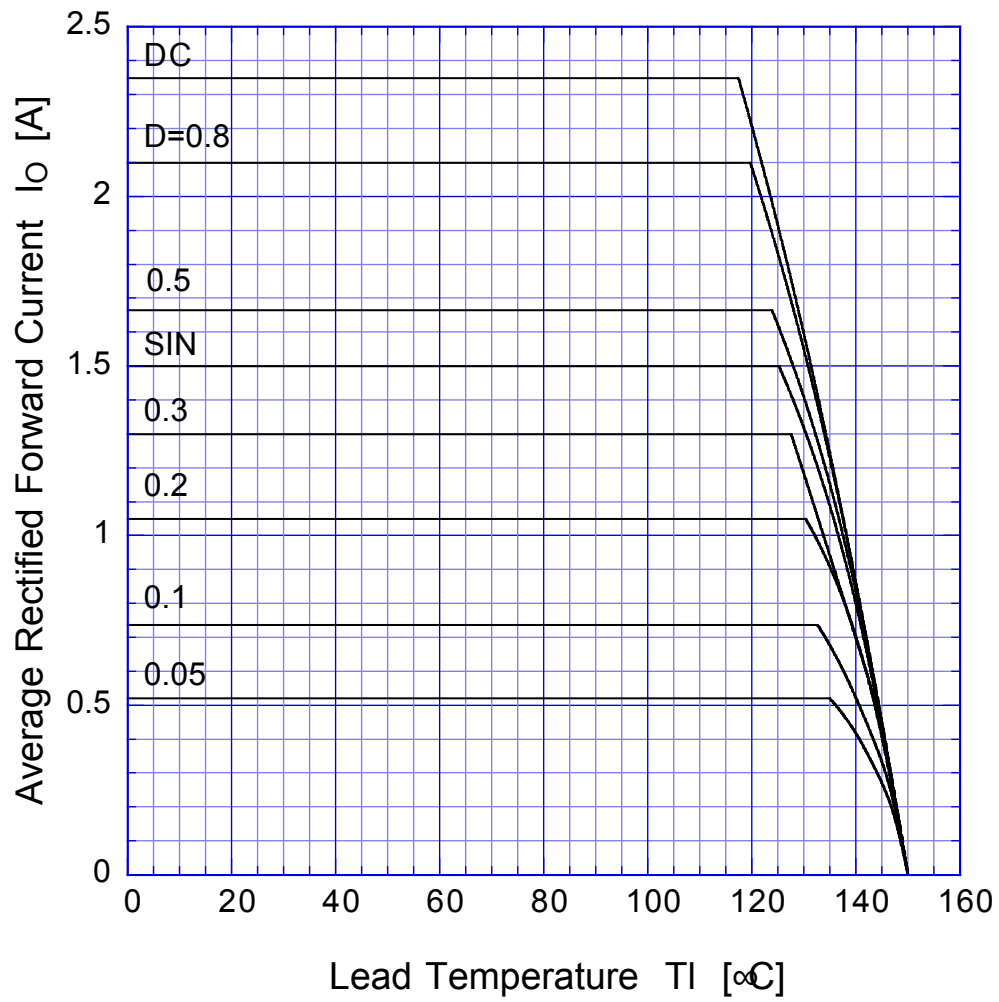


$$V_R = V_{RM}$$

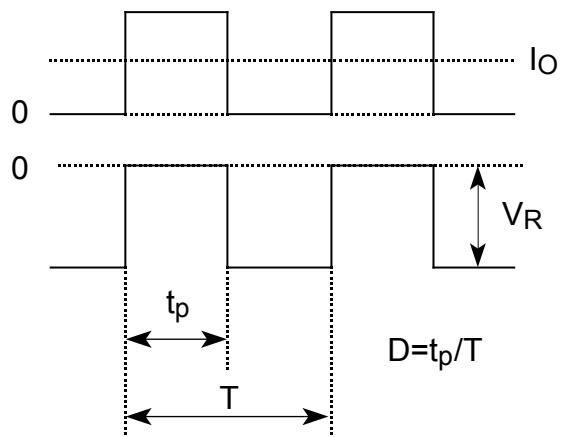


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Derating Curve

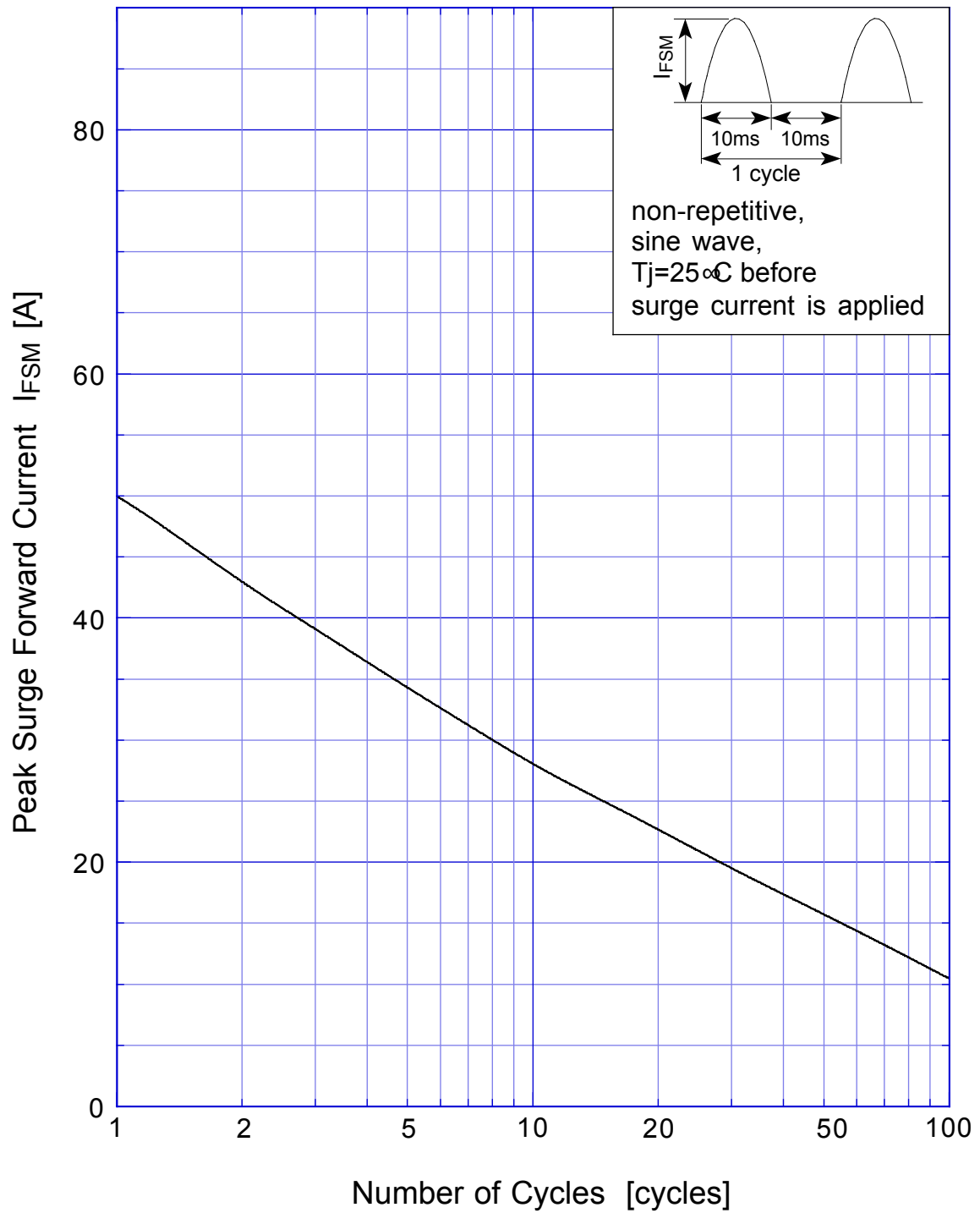


$V_R = V_{RM}$



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Peak Surge Forward Capability



S2L60 Junction Capacitance

