

SHINDENGEN

Super Fast Recovery Rectifiers

Single

D2L20U**200V 1.5A**

FEATURES

- Low noise
- trr35ns
- Applicable to Automatic Insertion

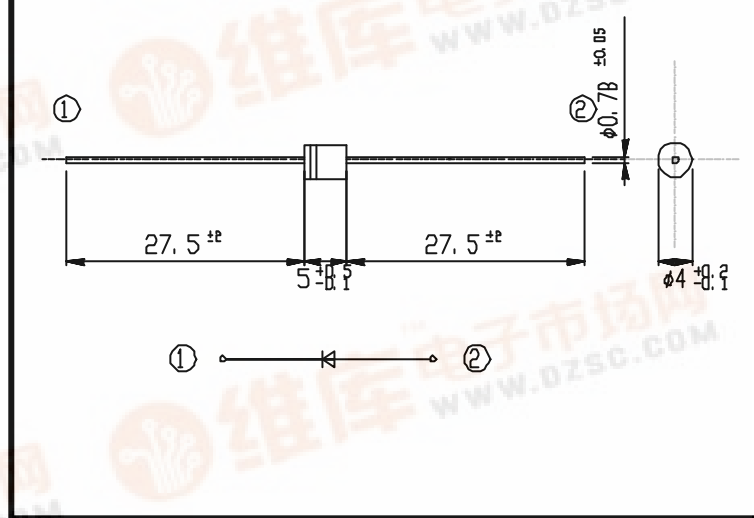
APPLICATION

- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS

Case : AX078

(Unit : mm)



RATINGS

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

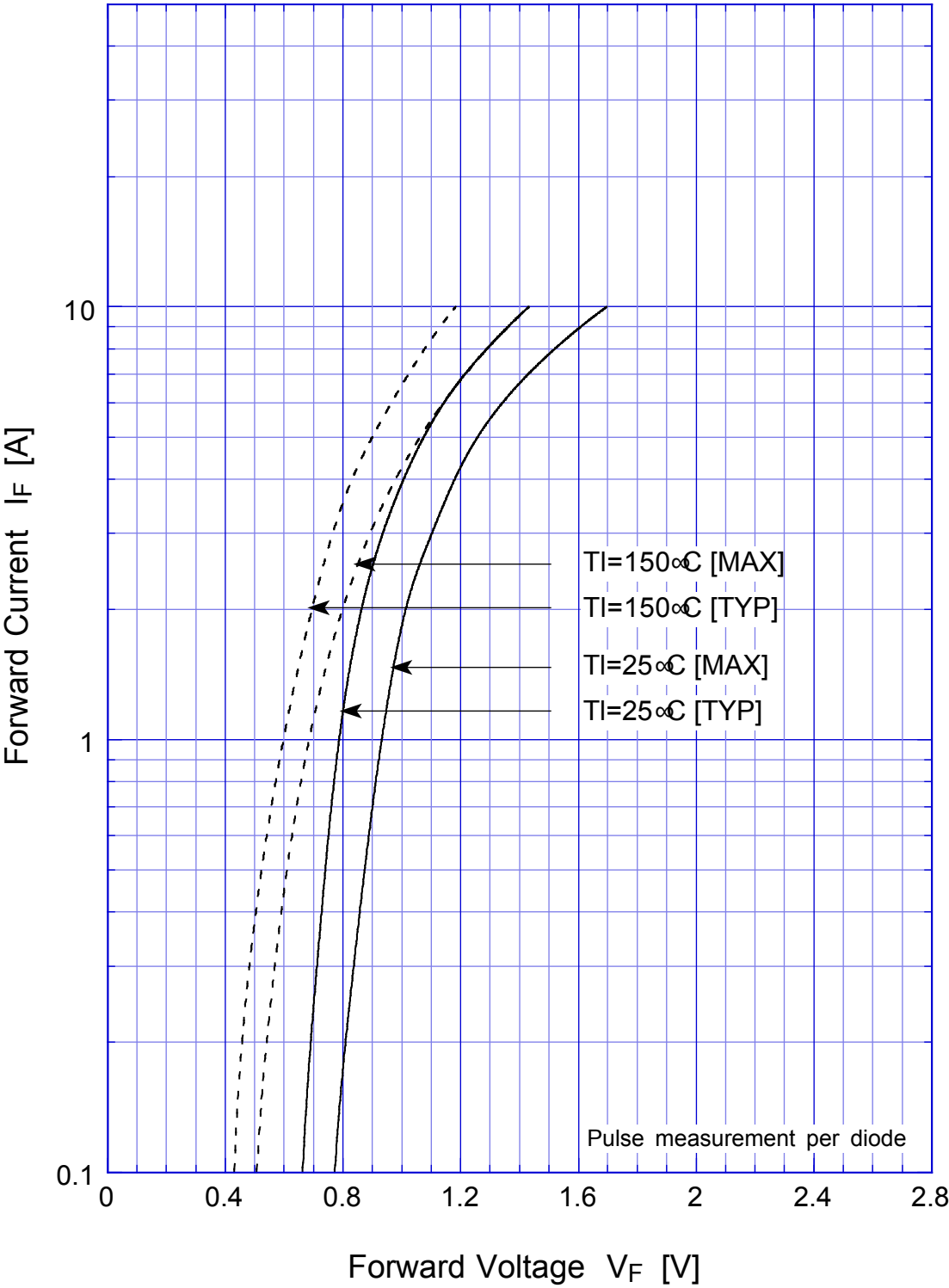
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Tl=125°C	1.5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, R-load, Ta=25°C	1.3	A
		50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	40	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.0.98	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.35	ns
Thermal Resistance	θ _{jl}	junction to lead	Max.17	°C/W
	θ _{ja}	junction to ambient	Max.105	

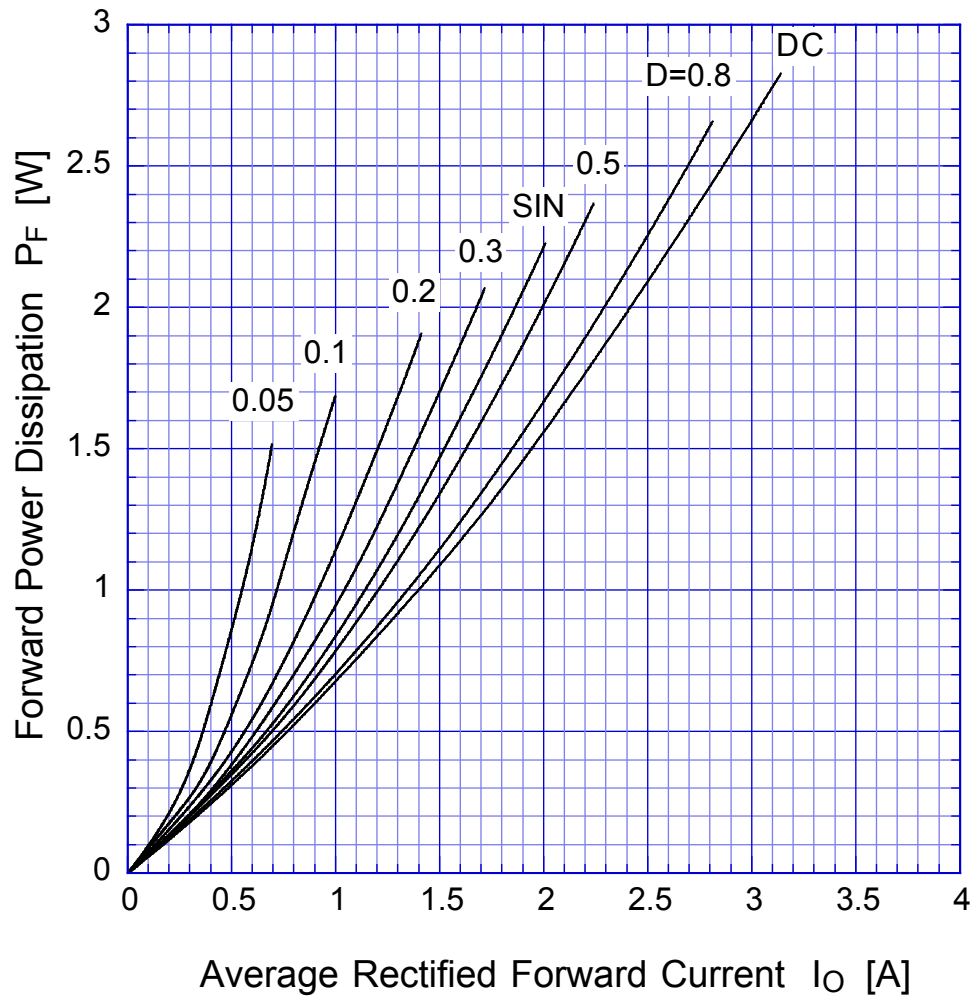
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Forward Voltage

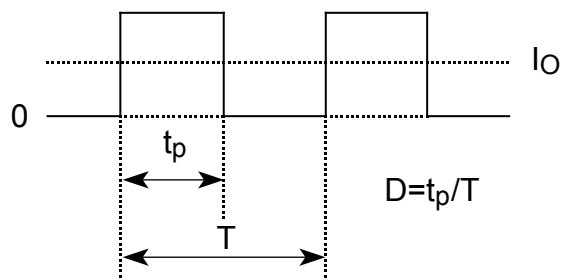


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Forward Power Dissipation

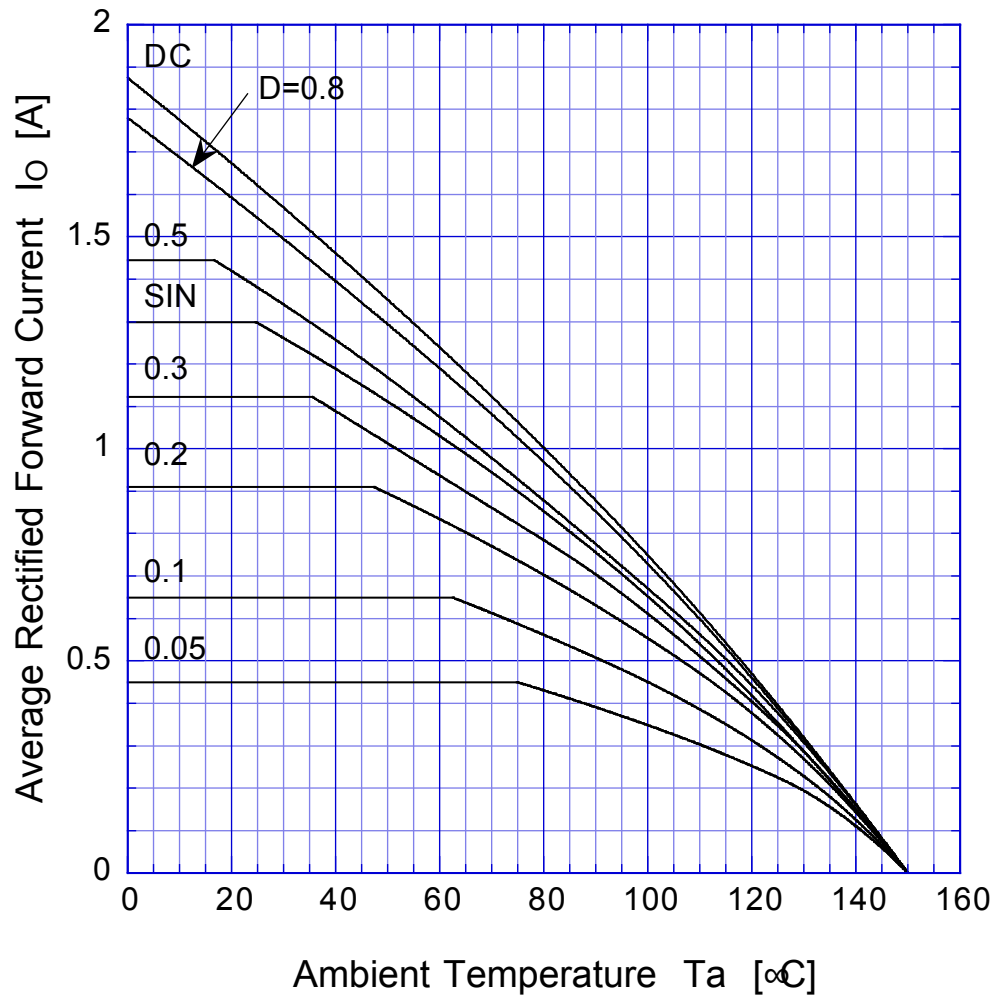


$T_j = T_{jmax}$

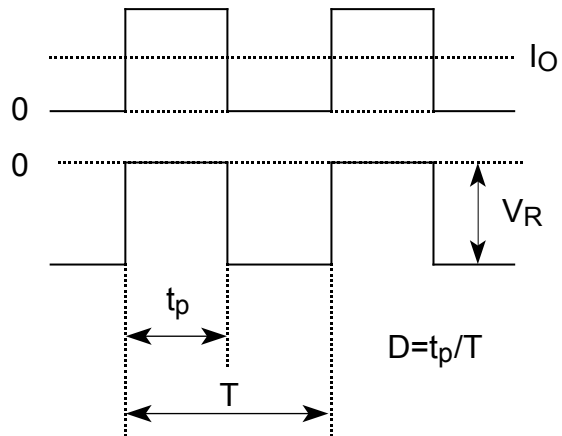


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Derating Curve

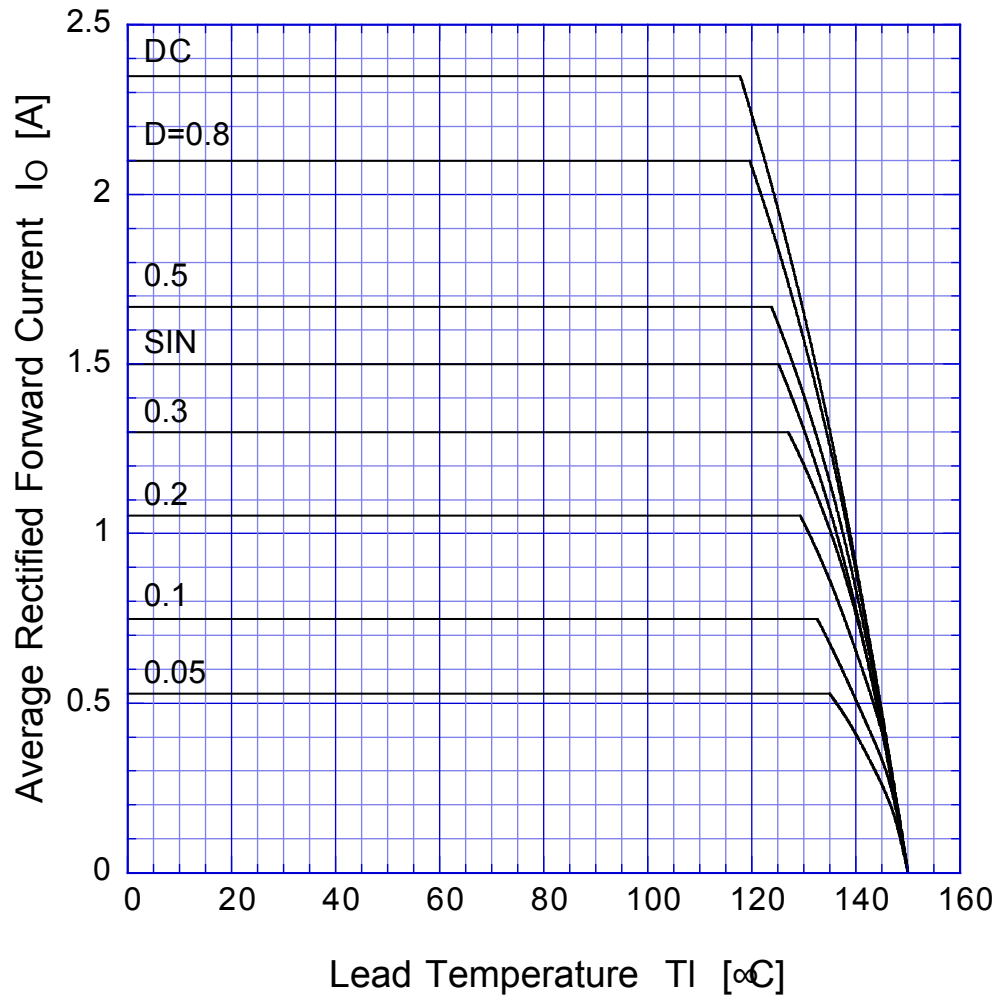


$$V_R = V_{RM}$$

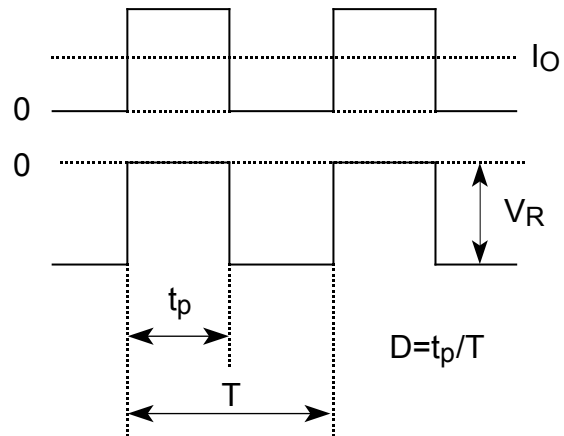


D2L20U

Derating Curve

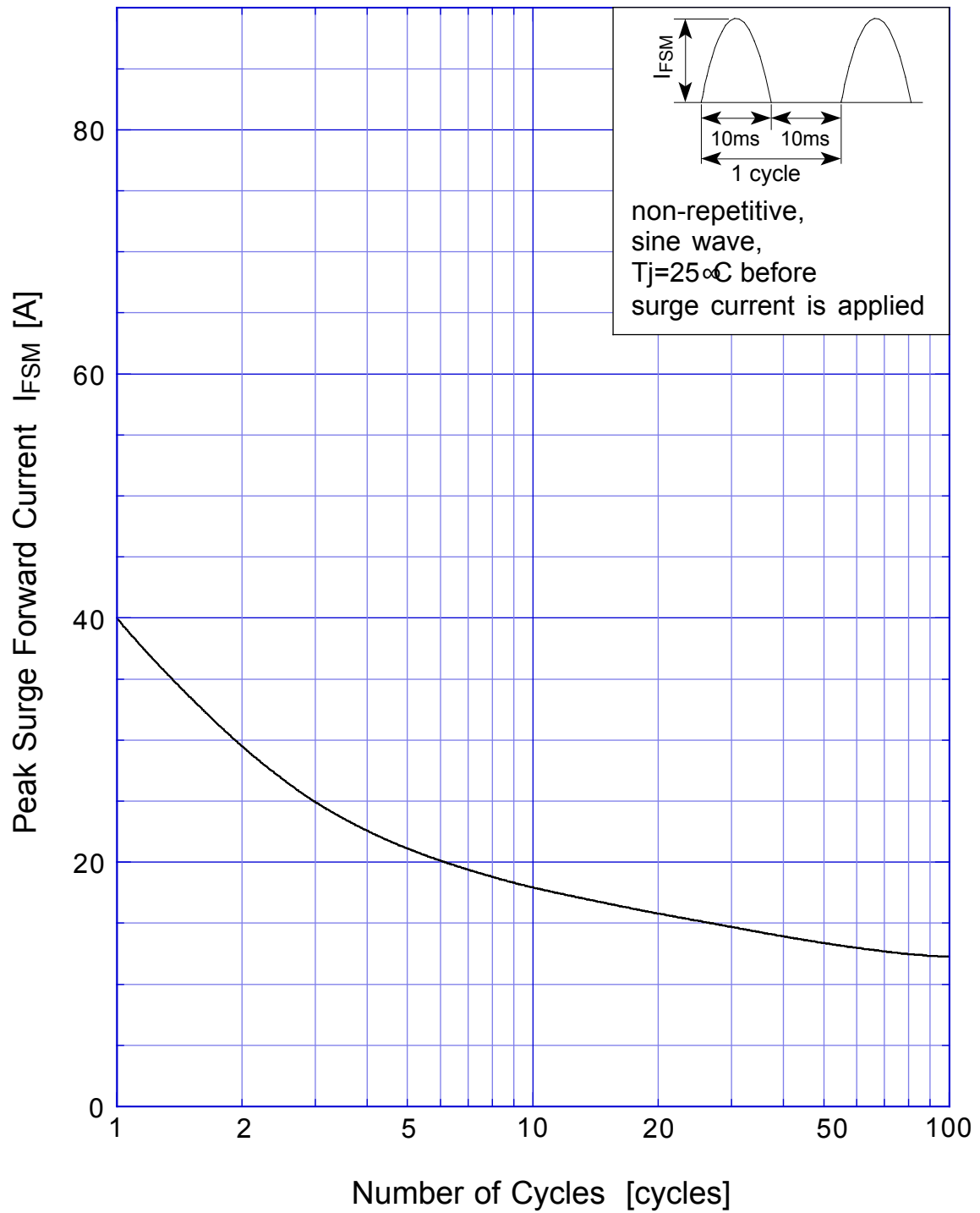


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D2L20U Junction Capacitance

