

S3L20U

200V 3A

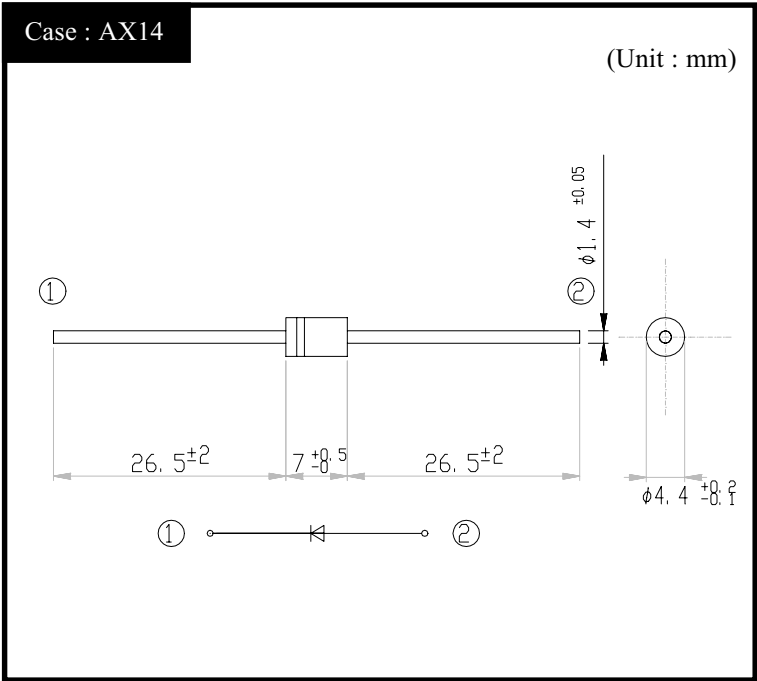
FEATURES

- Low noise
- trr35ns
- Applicable to Automatic Insertion

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

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

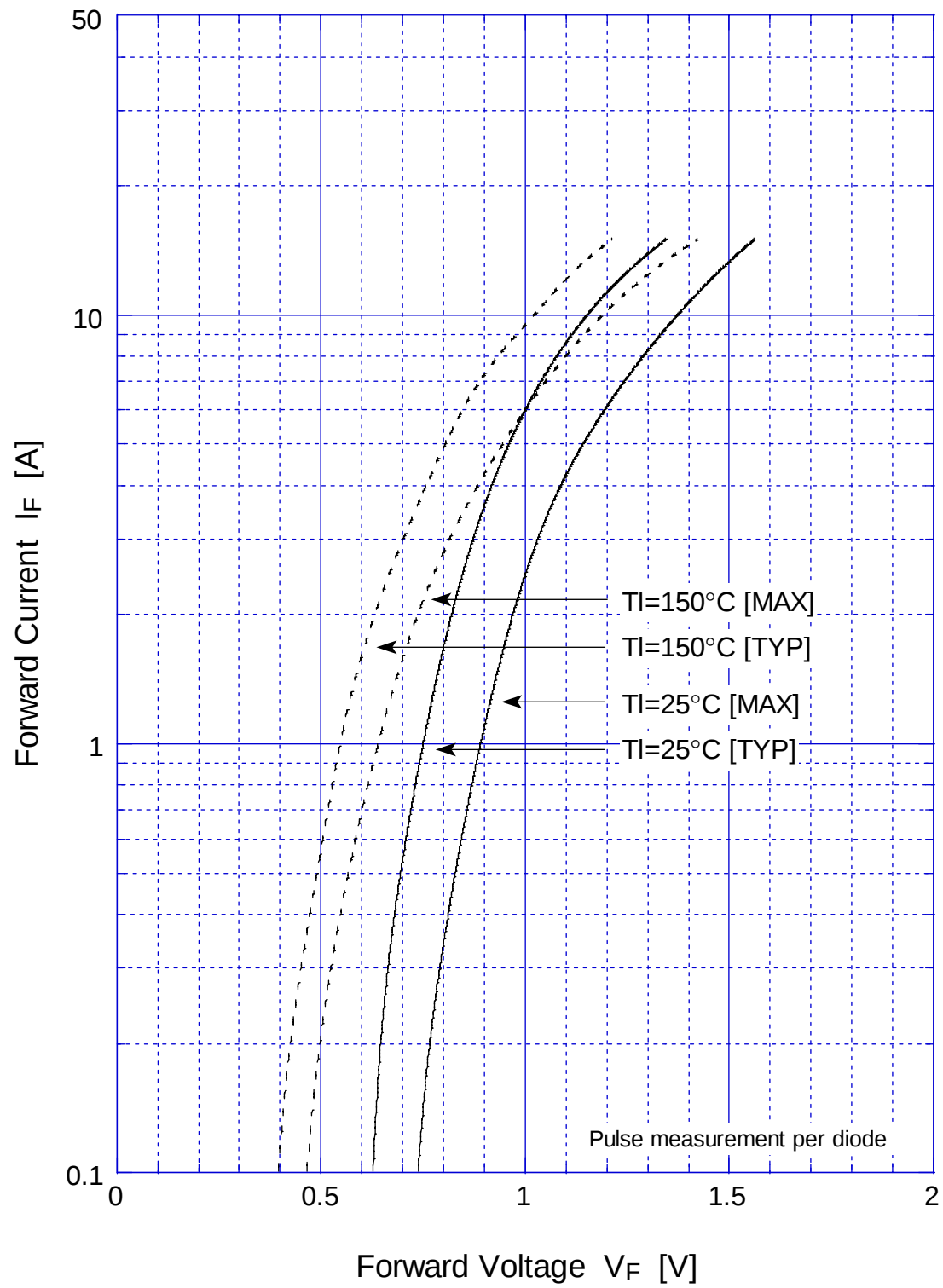
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Tl=128°C	3	A
		50Hz sine wave, R-load, Ta=25°C	2.1	
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=2.1A, Pulse measurement	Max.0.98	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μ A
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max.35	ns
Thermal Resistance	θ jl	junction to lead	Max.6.5	°C/W
	θ ja	junction to ambient	Max.60	

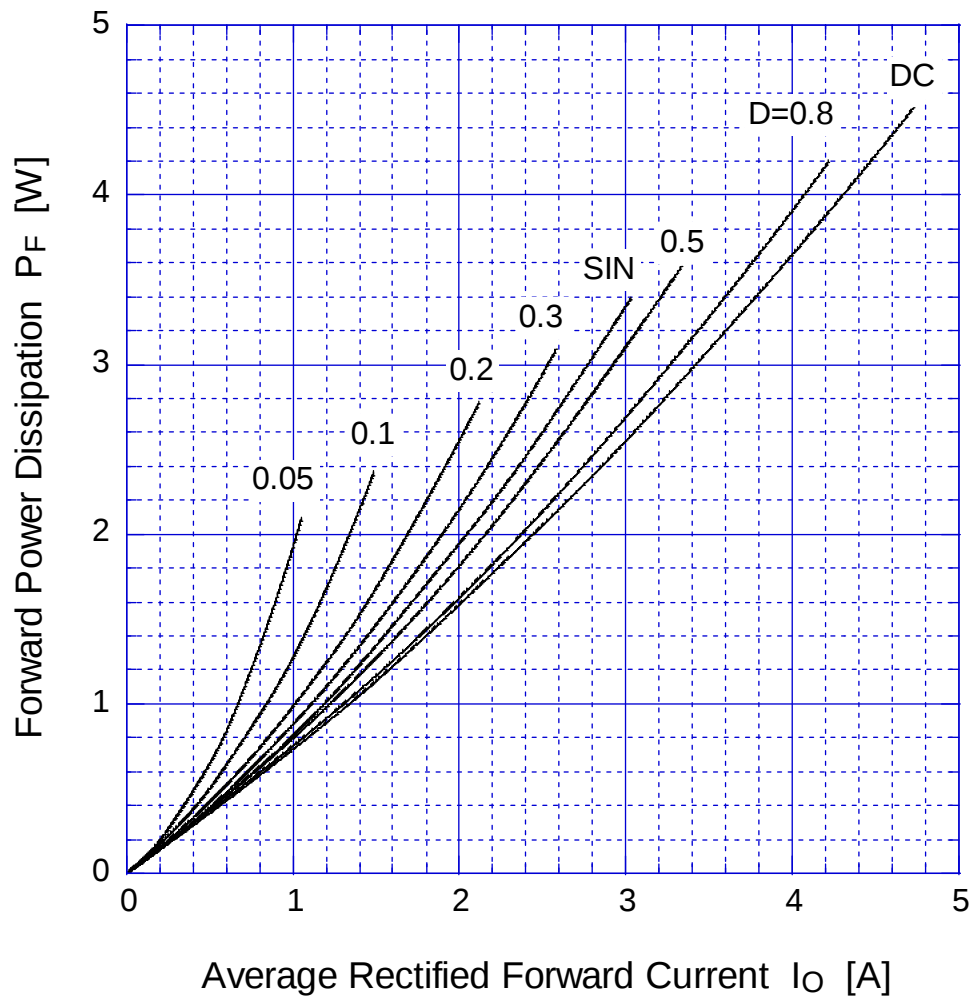
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Forward Voltage

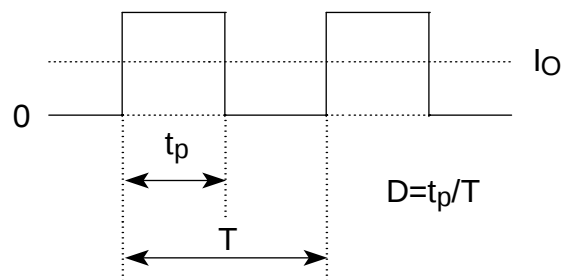


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Forward Power Dissipation

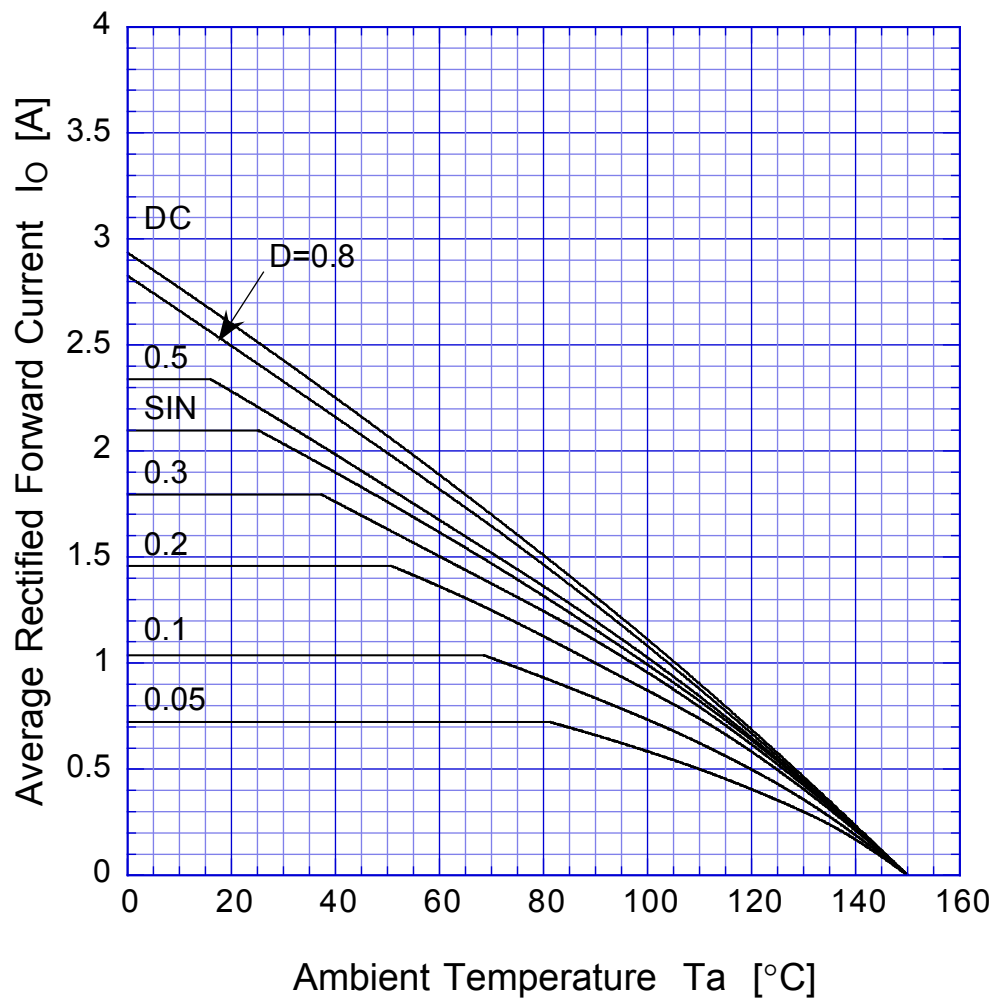


$T_j = 150^\circ\text{C}$

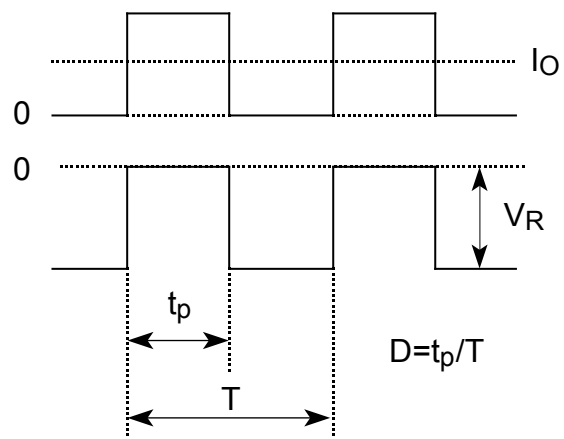


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Derating Curve

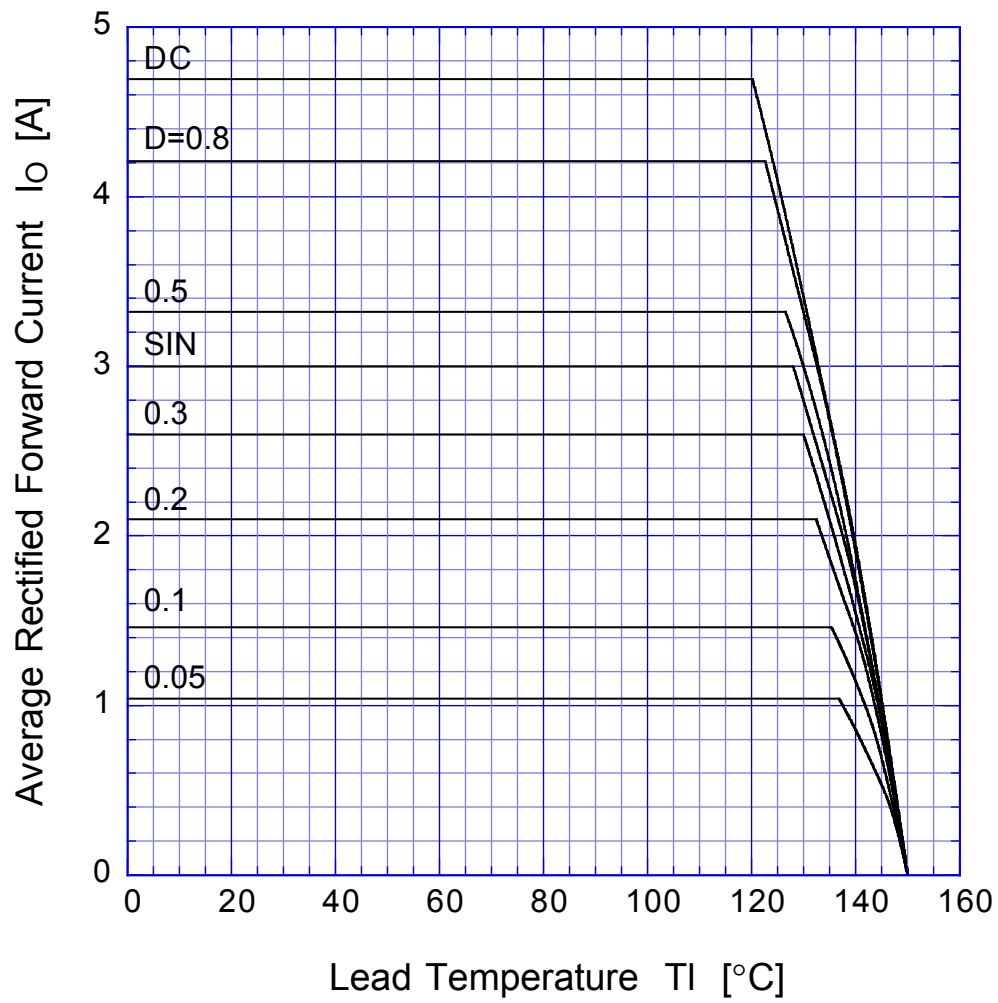


$$V_R = V_{RM}$$

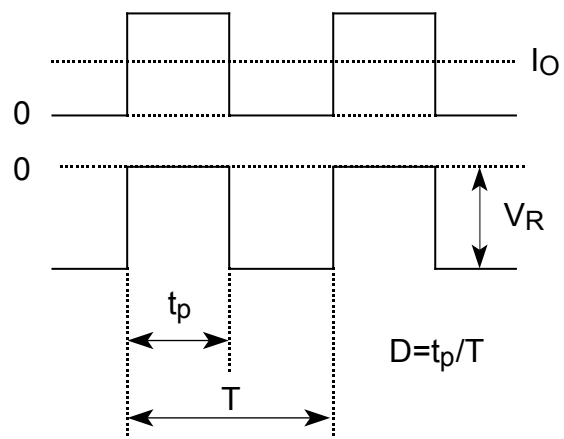


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Derating Curve

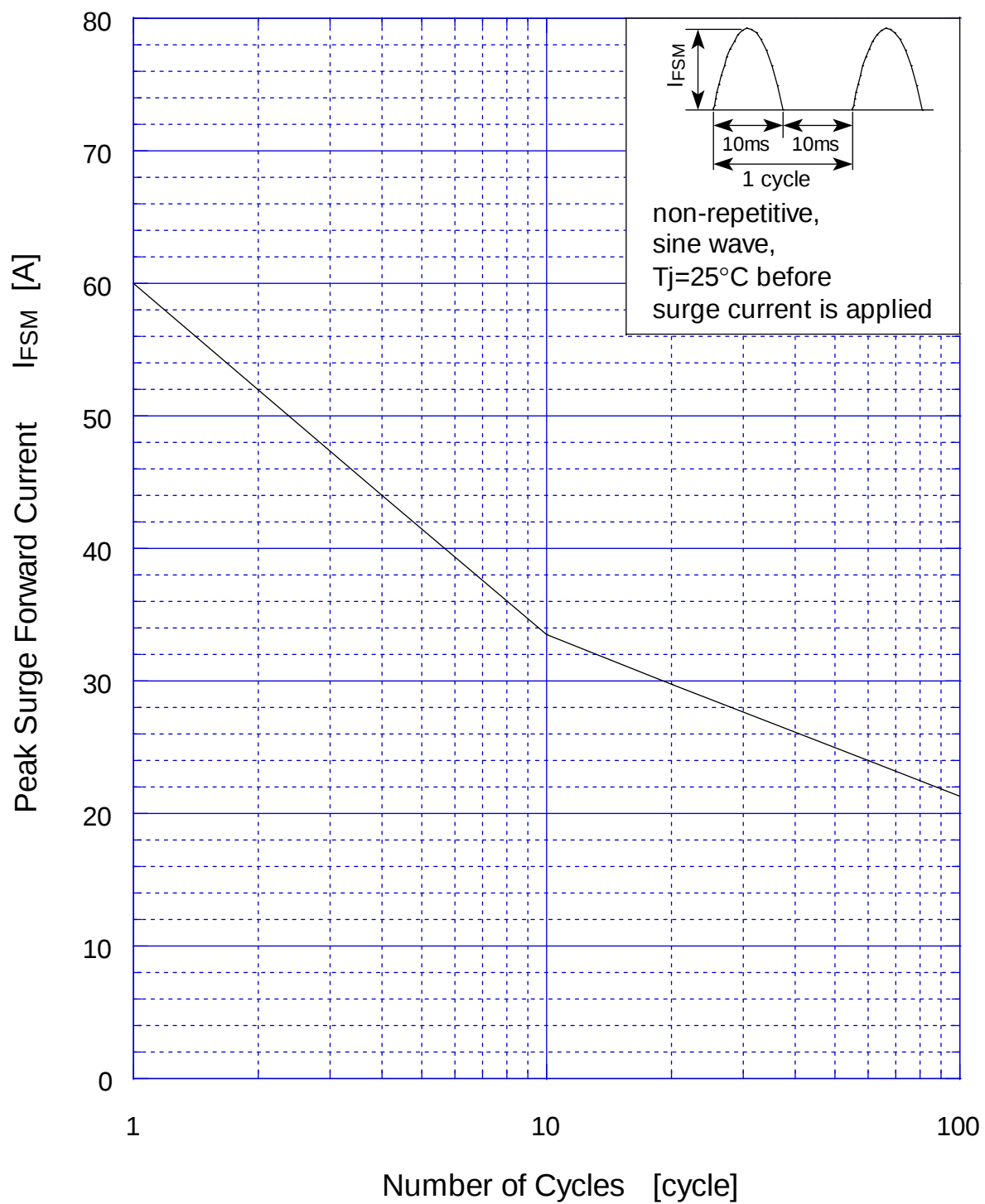


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



S3L20U Junction Capacitance

