

SHINDENGEN

Super Fast Recovery Rectifiers

Single

S3L20U

200V 3A

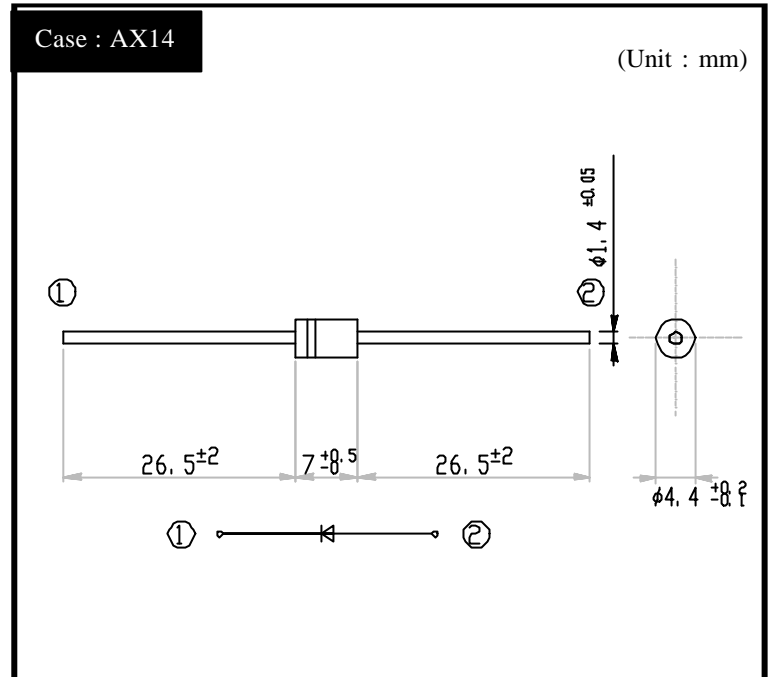
FEATURES

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)

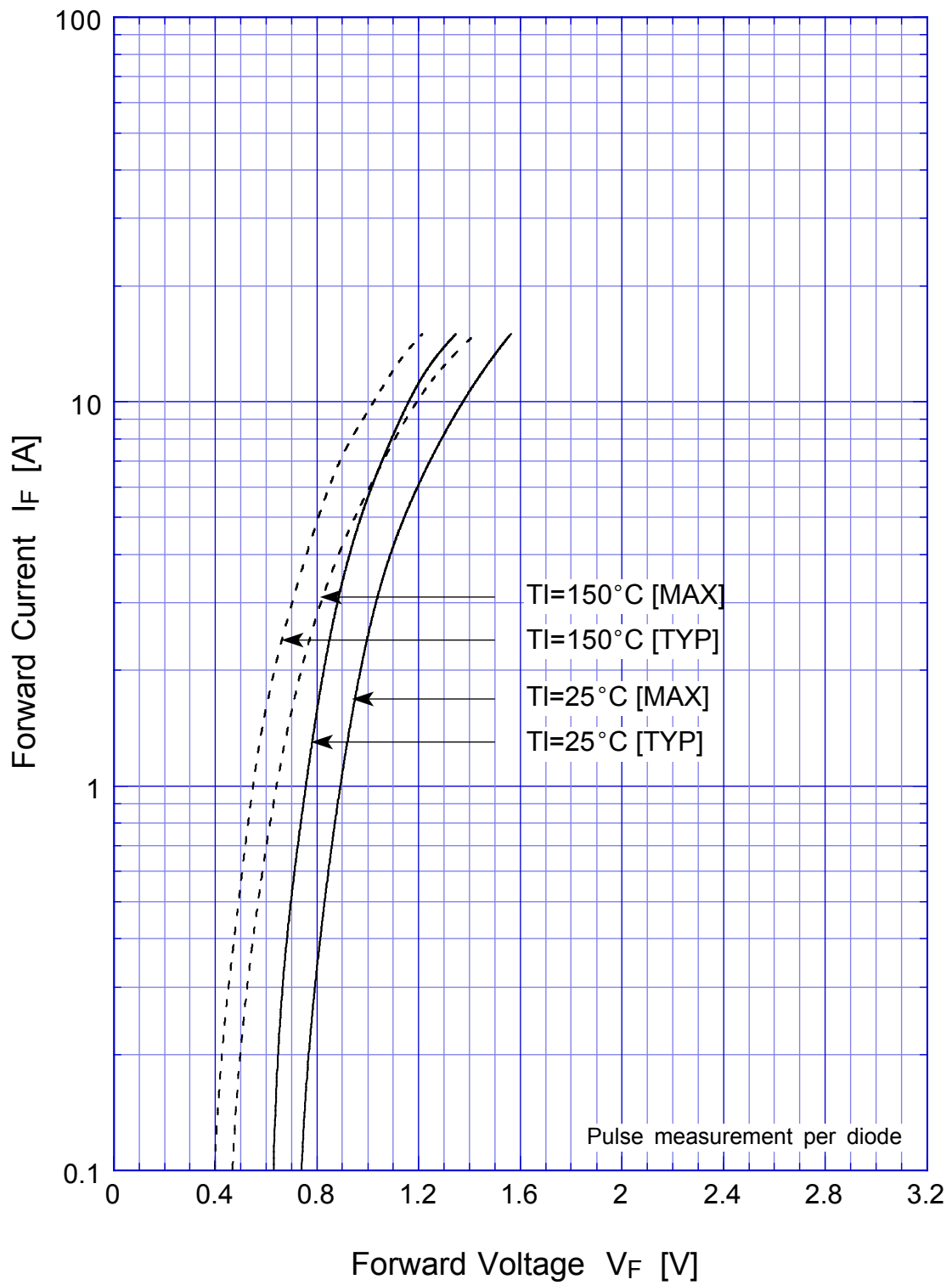
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tl=128	3	A
		50Hz sine wave, R-load, Ta=25	2.1	
Peak Surge Forward Current	I _{FSM}	50Hz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

Electrical Characteristics (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2.1A, Pulse measurement	Max.0.98	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.10	μ A
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A	Max.35	ns
Thermal Resistance	j-l	junction to lead	Max.6.5	/W
	j-a	junction to ambient	Max.60	

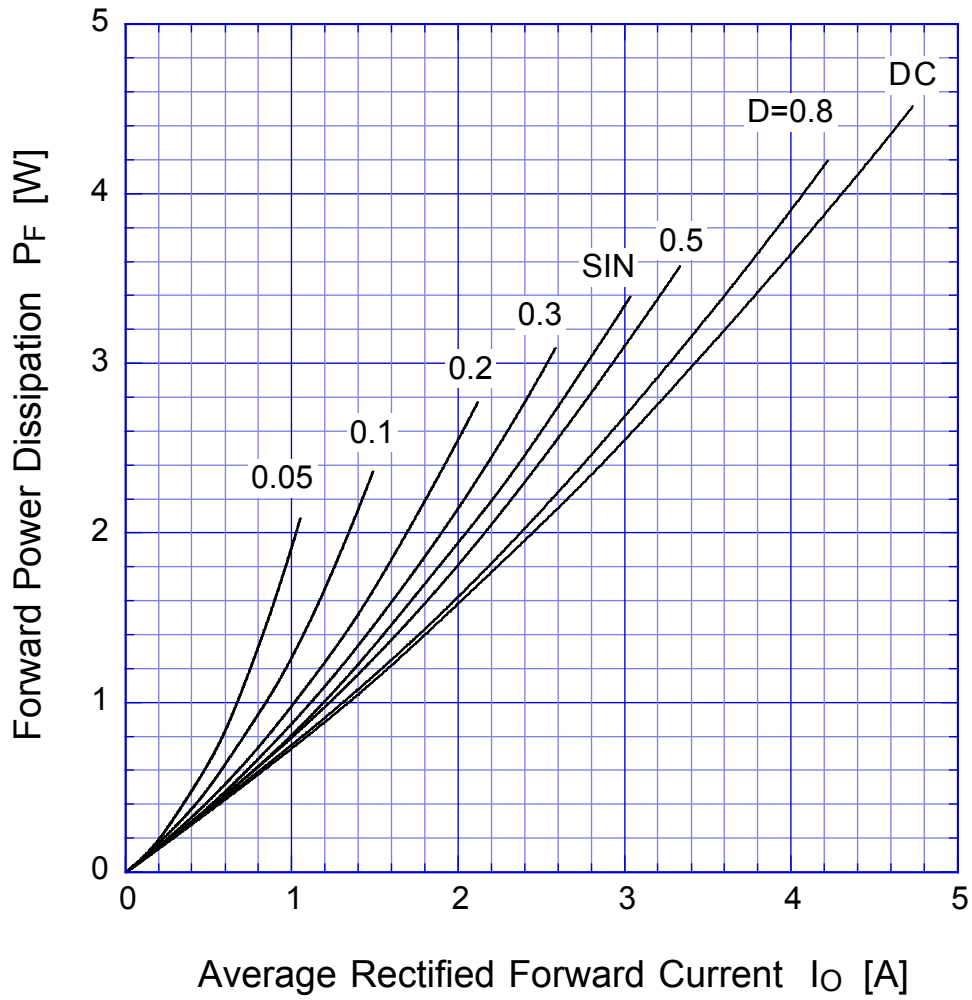
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Forward Voltage

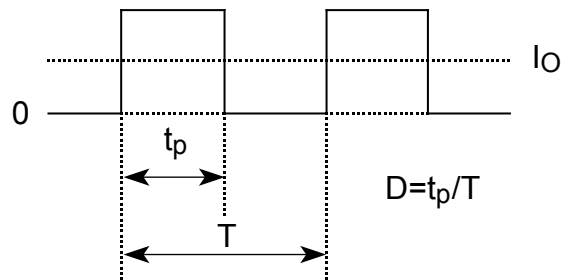


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Forward Power Dissipation

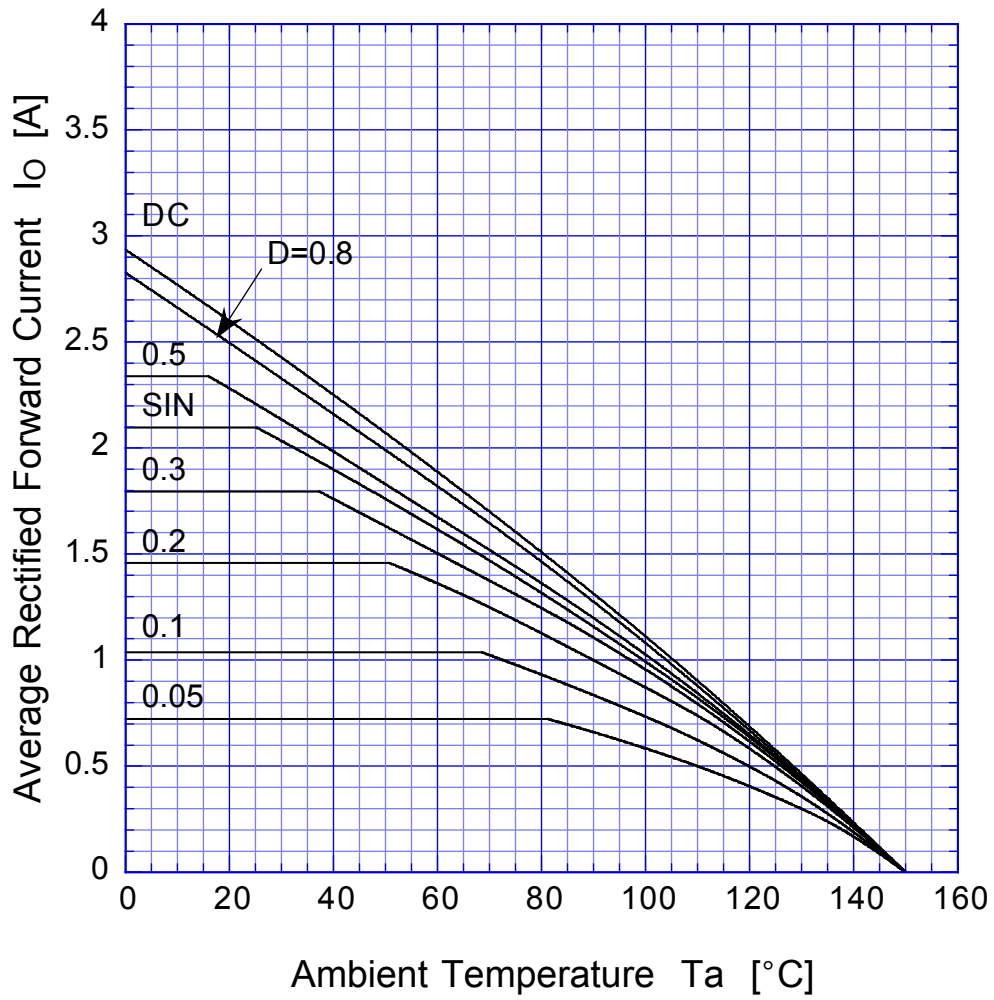


$T_j = T_{jmax}$



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Derating Curve

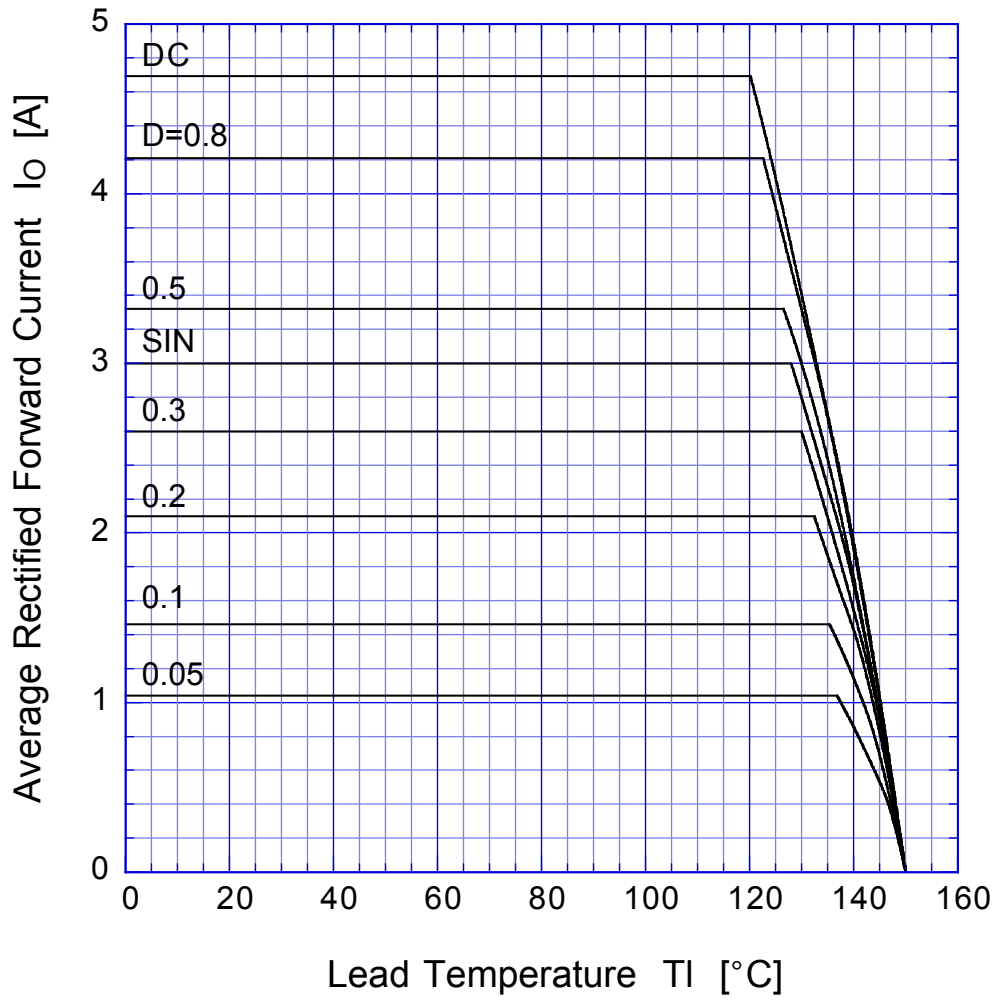


$$V_R = V_{RM}$$



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Derating Curve

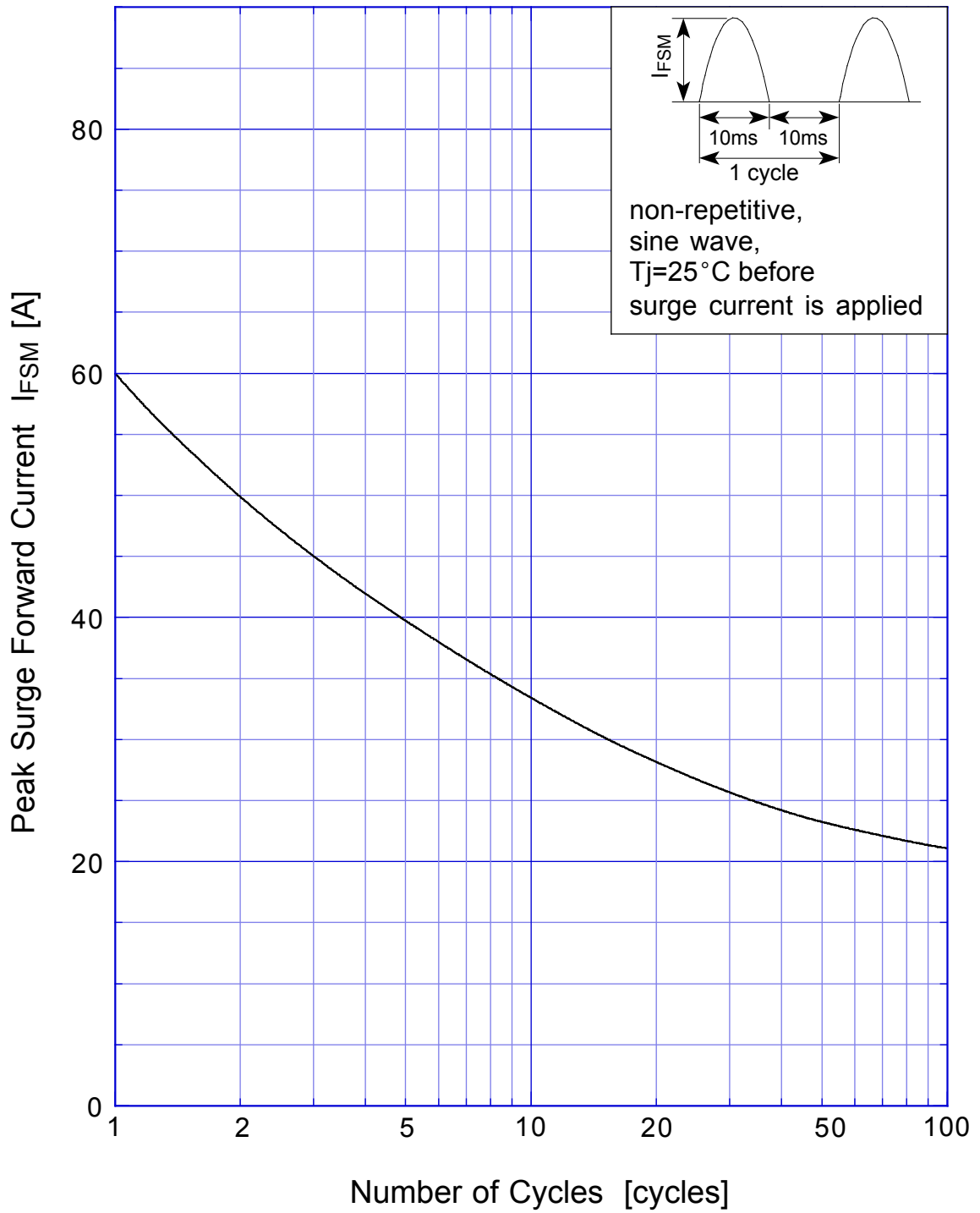


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



S3L20U Junction Capacitance

