

SHINDENGEN

Super Fast Recovery Rectifiers

Single

S3L20U

200V 3A

FEATURES

- Low noise
- trr35ns
- Applicable to Automatic Insertion

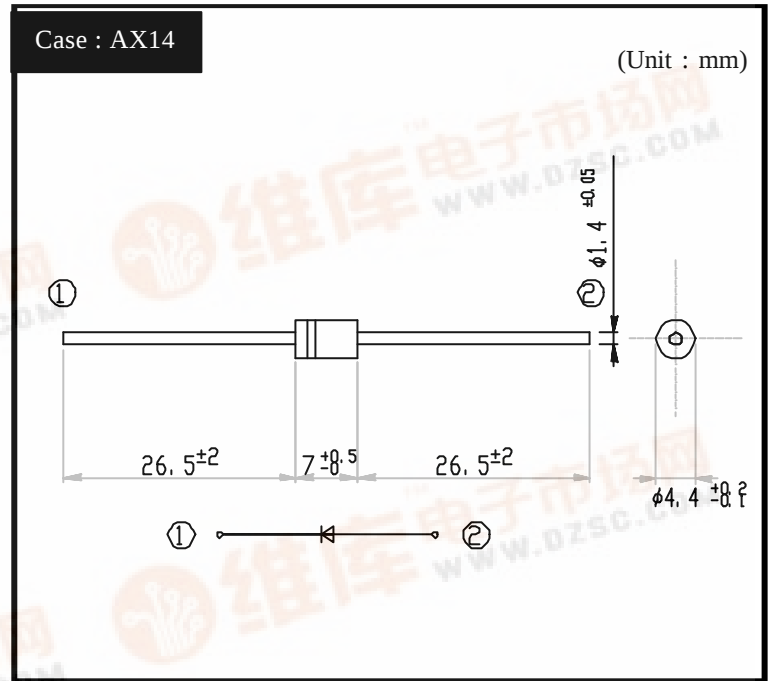
APPLICATION

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

OUTLINE DIMENSIONS

Case : AX14

(Unit : mm)



RATINGS

- Absolute Maximum Ratings (If not specified Tl=25)

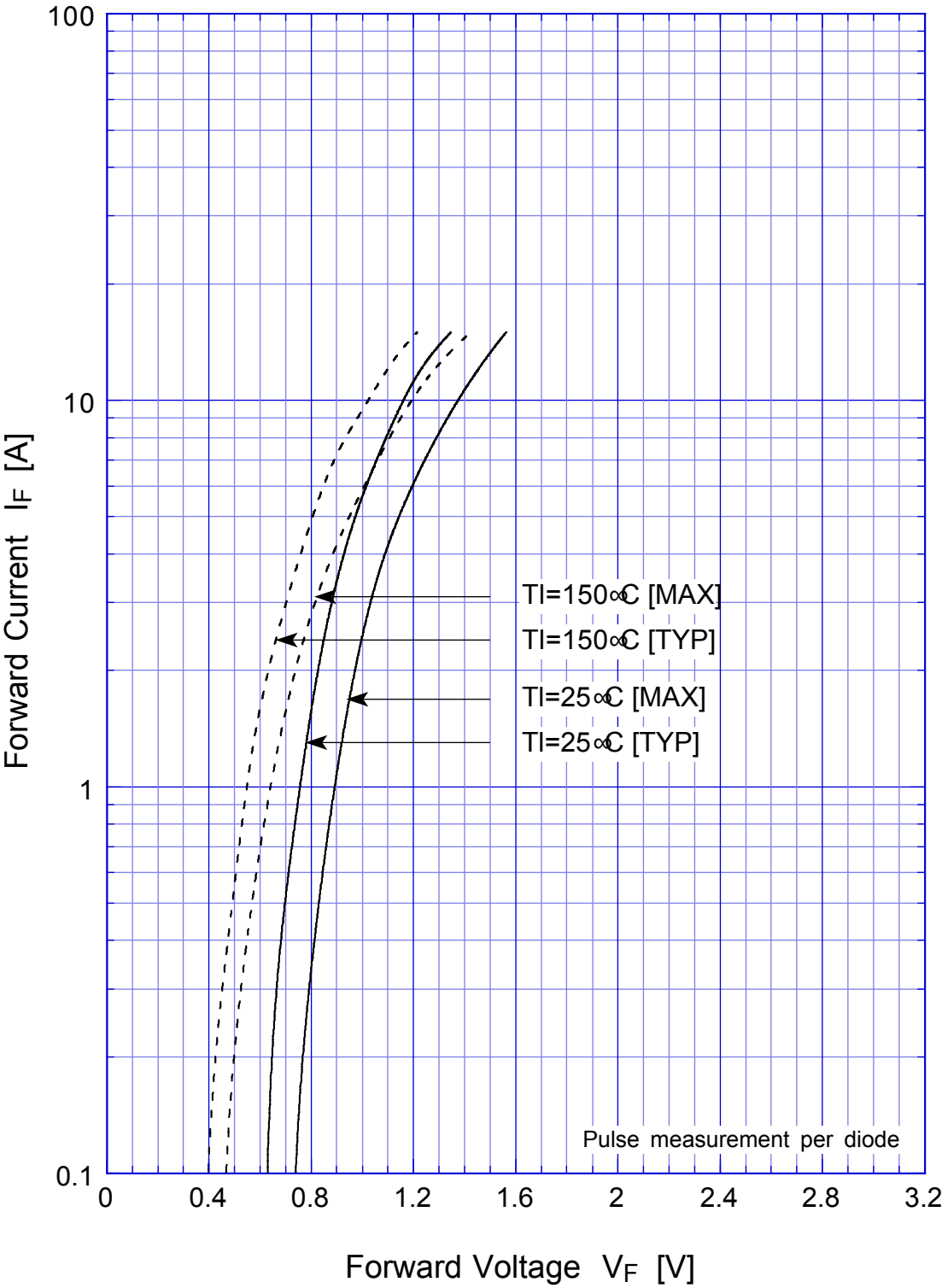
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Tl=128	3	A
		50Hz sine wave, R-load, Ta=25	2.1	
Peak Surge Forward Current	I _{FSM}	50Hz 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	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A	Max.35	ns
Thermal Resistance	θ _{jl}	junction to lead	Max.6.5	/W
	θ _{ja}	junction to ambient	Max.60	

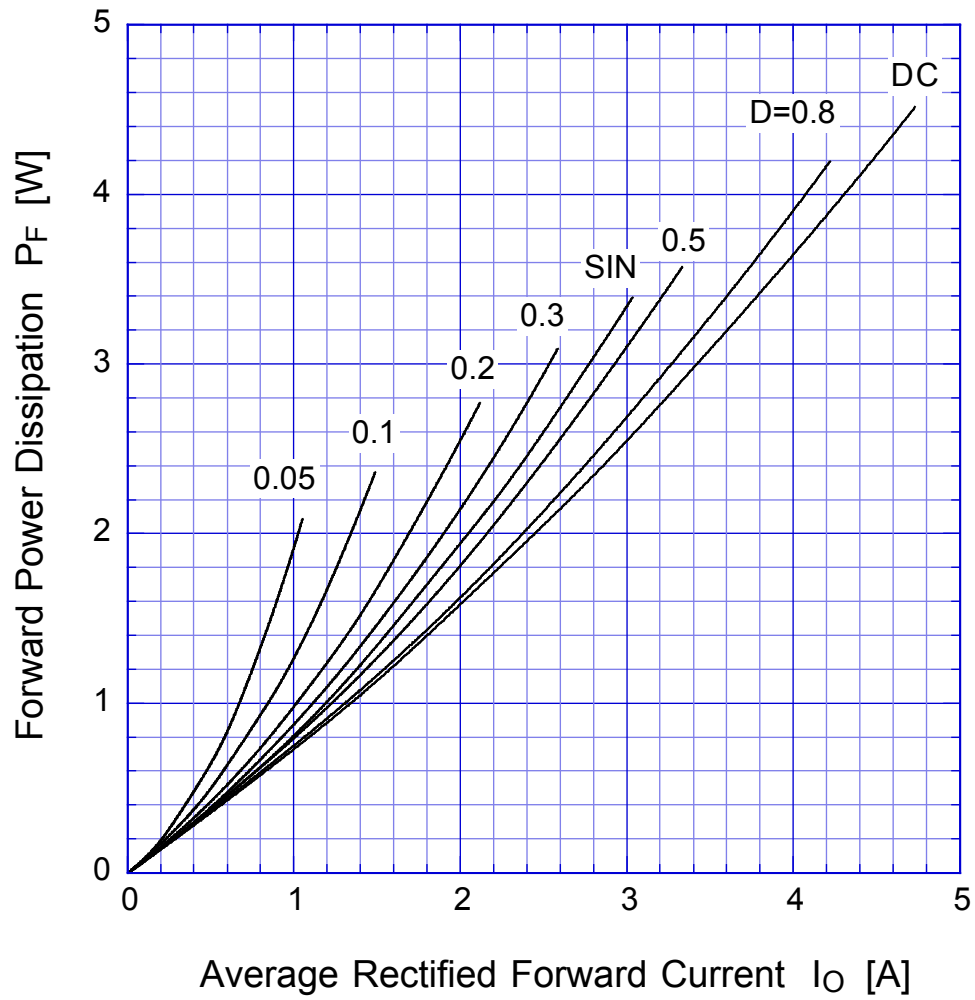
S3L20U

Forward Voltage

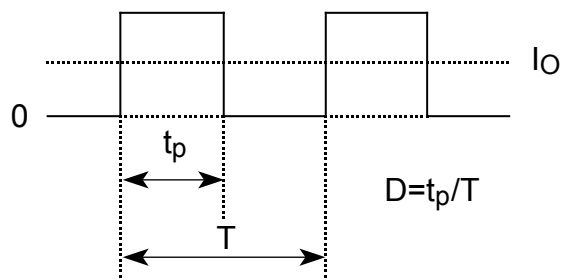


S3L20U

Forward Power Dissipation

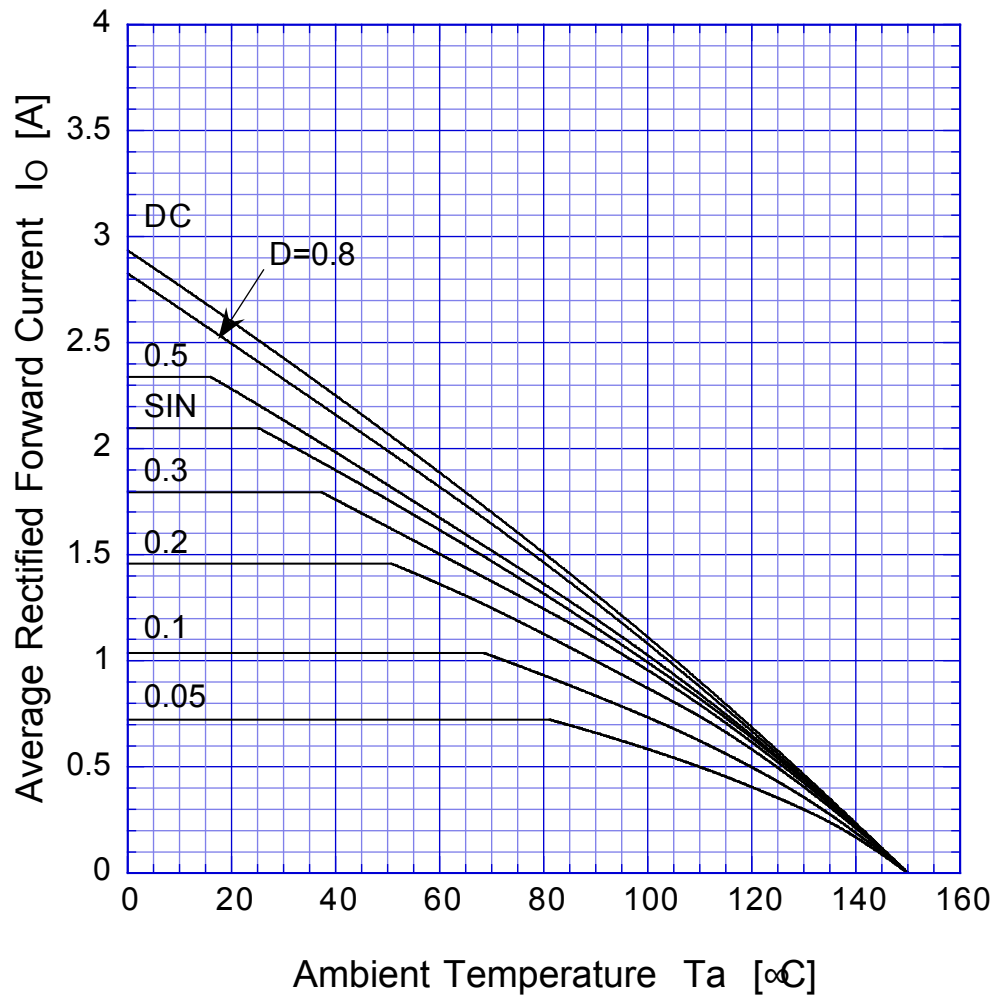


$T_j = T_{jmax}$

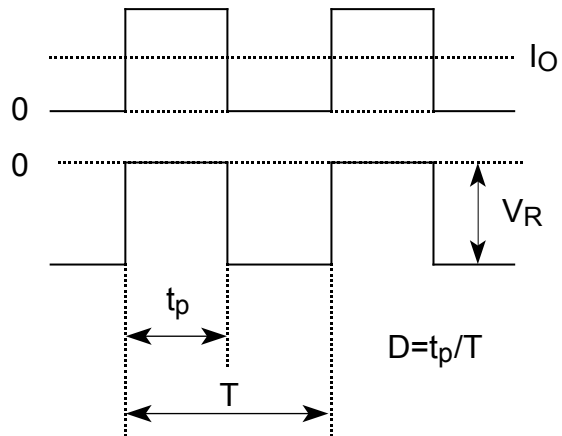


S3L20U

Derating Curve

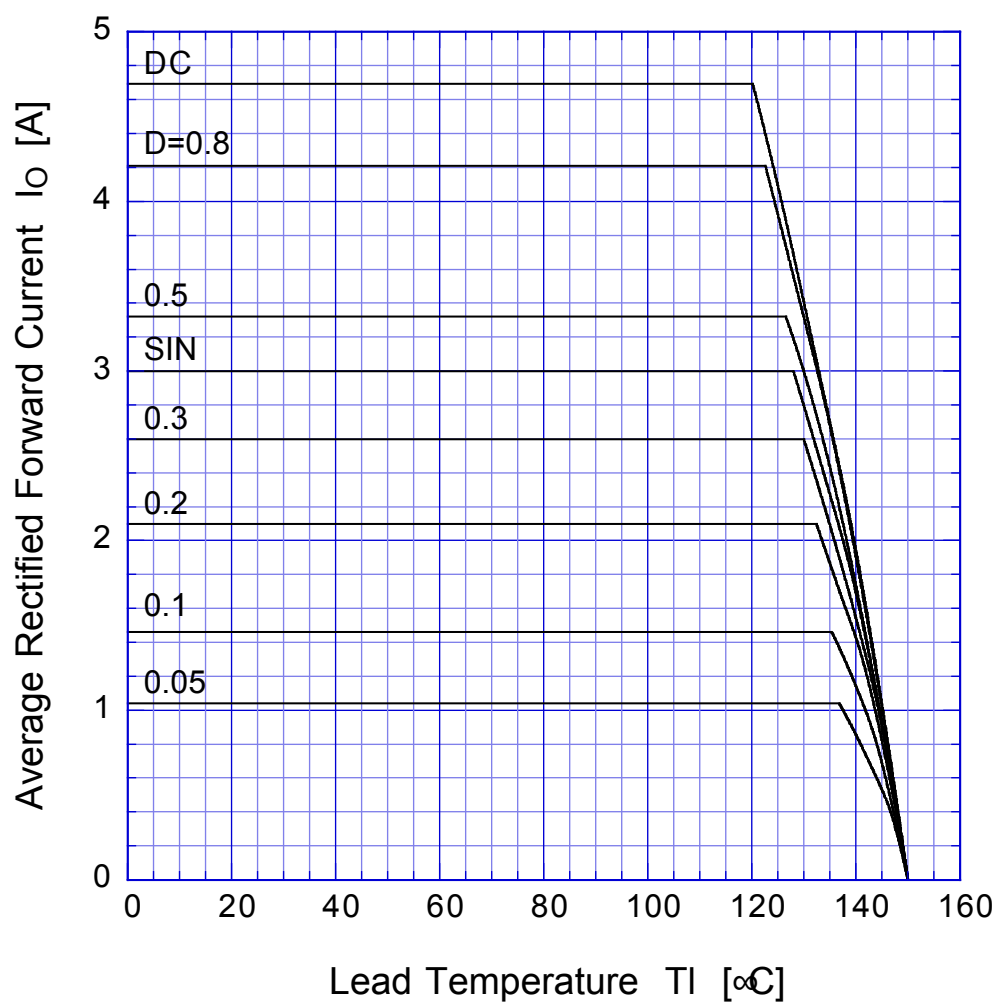


$$V_R = V_{RM}$$

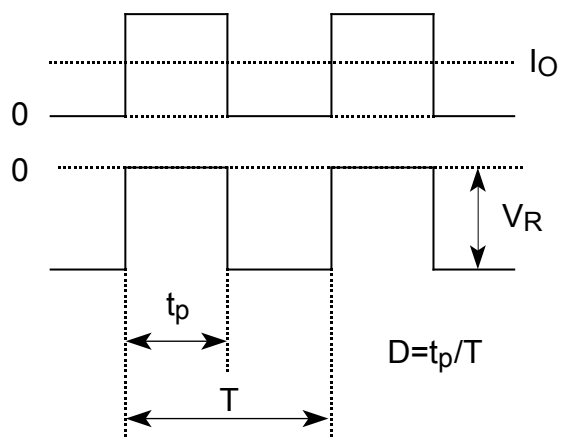


S3L20U

Derating Curve

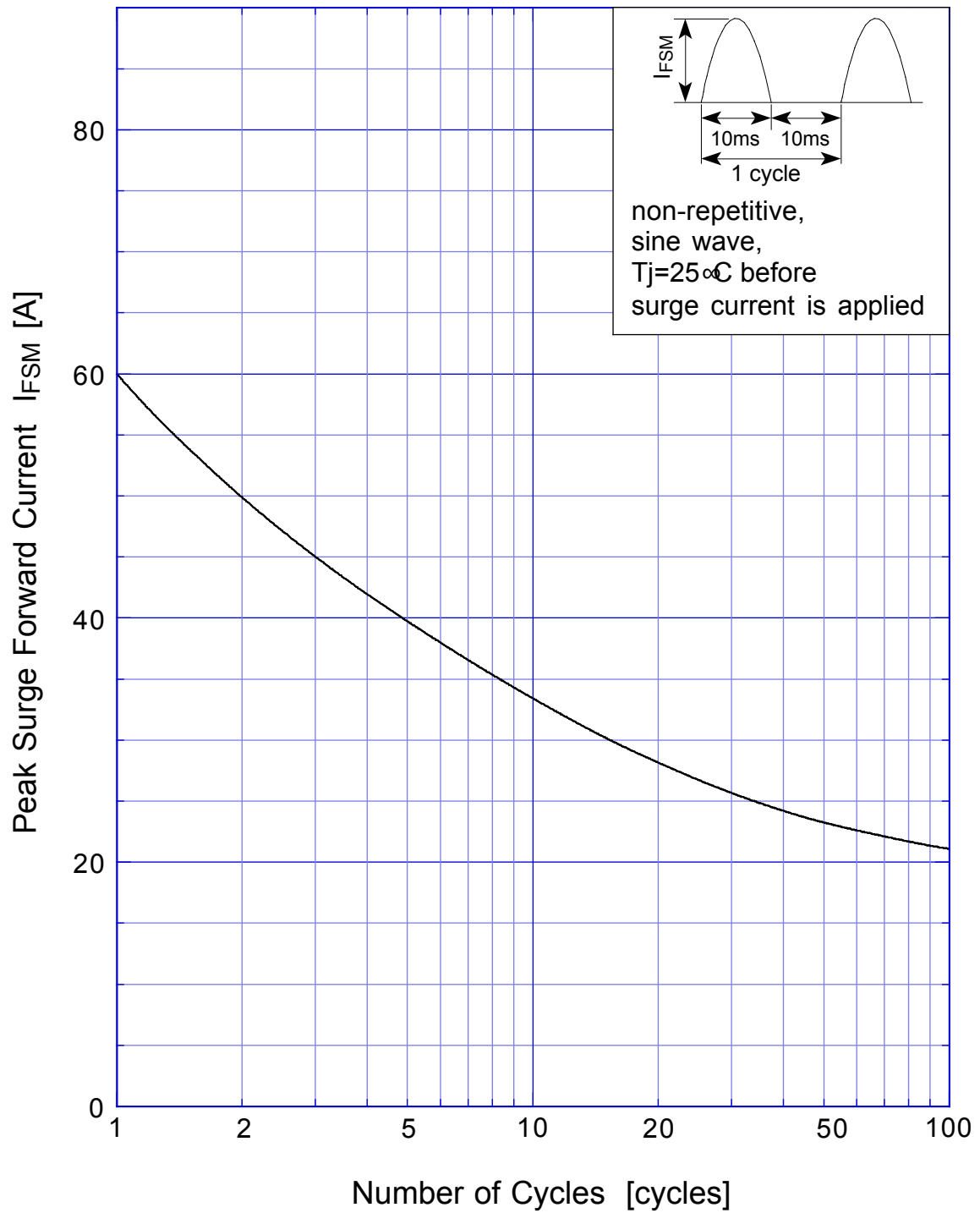


$$V_R = V_{RM}$$



S3L20U

Peak Surge Forward Capability



S3L20U Junction Capacitance

