

# SHINDENGEN

## Super Fast Recovery Rectifiers

Single

# S3L40

## 400V 3A

### FEATURES

- Low noise
- trr50ns
- Applicable to Automatic Insertion

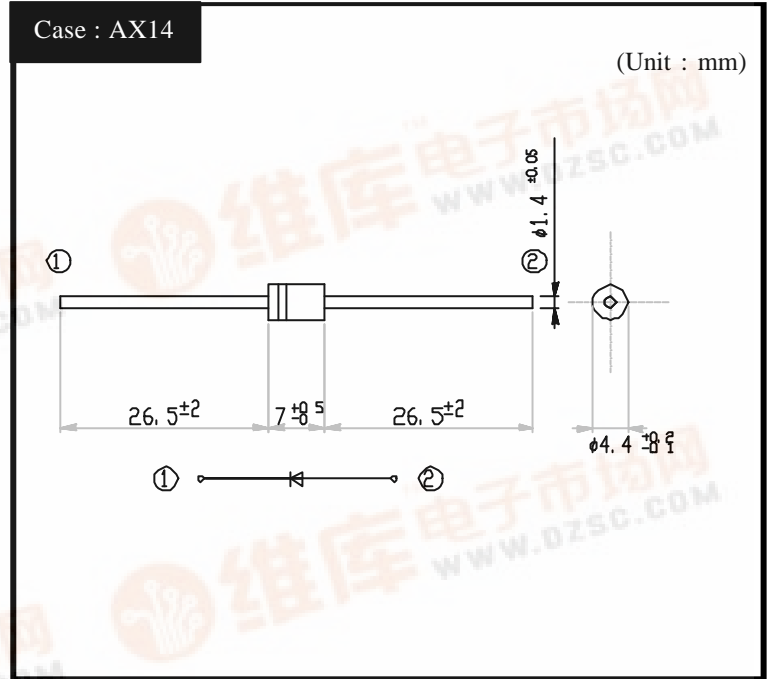
### APPLICATION

- 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 <sub>RM</sub>		400	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, R-load, Without heatsink Ta=25	1.8	A
		50Hz sine wave, R-load, Tl=123	3.0	
Peak Surge Forward Current	I <sub>FSM</sub>	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 <sub>F</sub>	I <sub>F</sub> =3.0A, Pulse measurement	Max.1.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A	Max.50	ns
Thermal Resistance	j-l	junction to lead	Max.6.5	/W
	j-a	junction to ambient	Max.60	

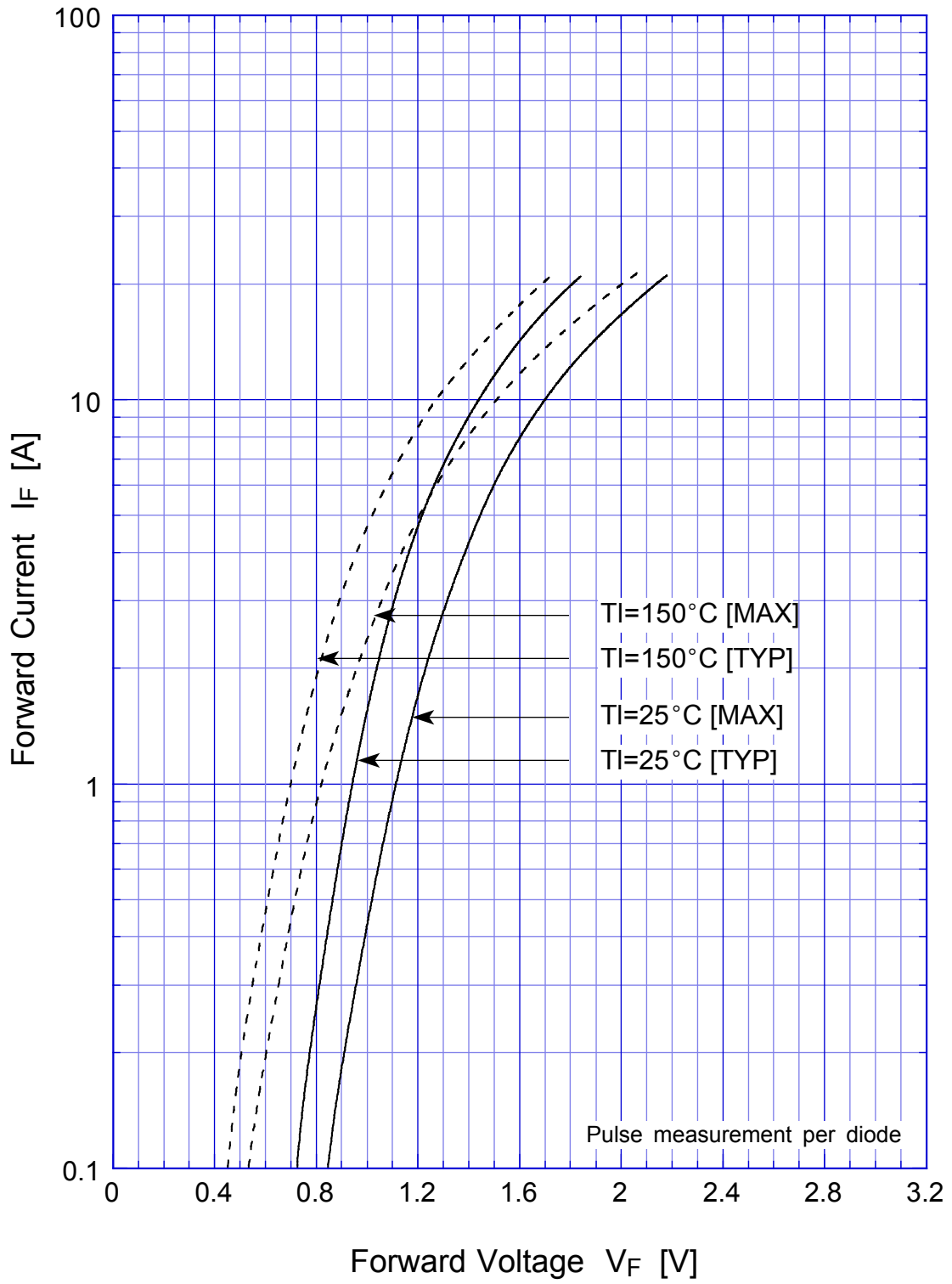


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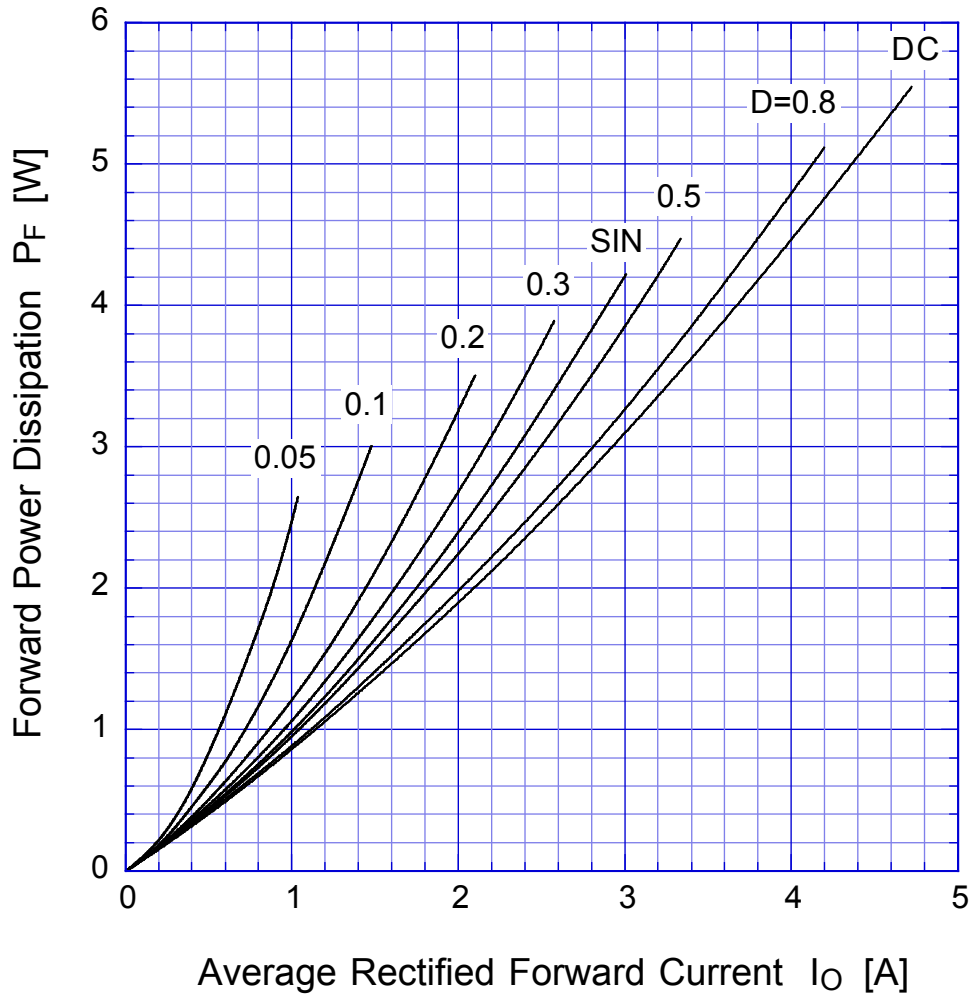
# S3L40

## Forward Voltage

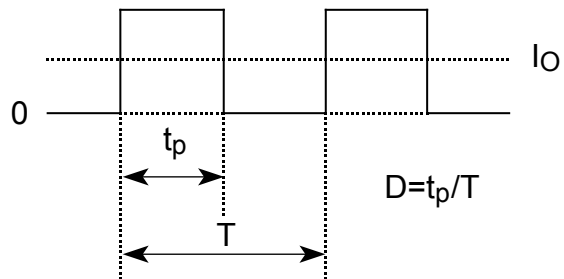


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## Forward Power Dissipation

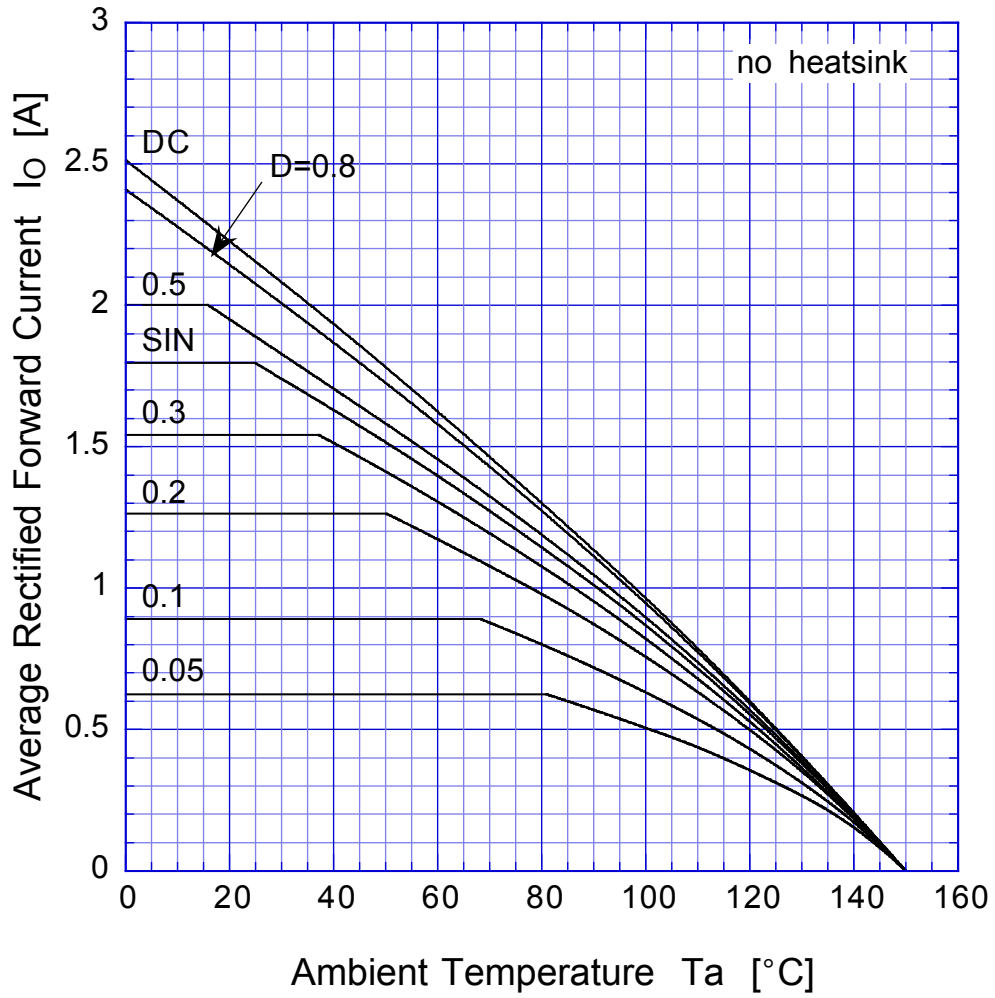


$T_j = T_{jmax}$

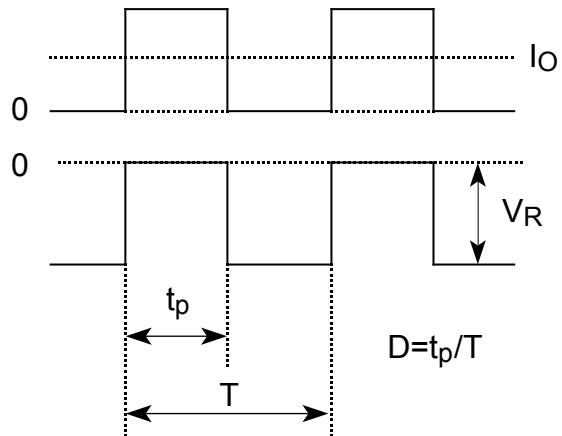


# S3L40

# Derating Curve

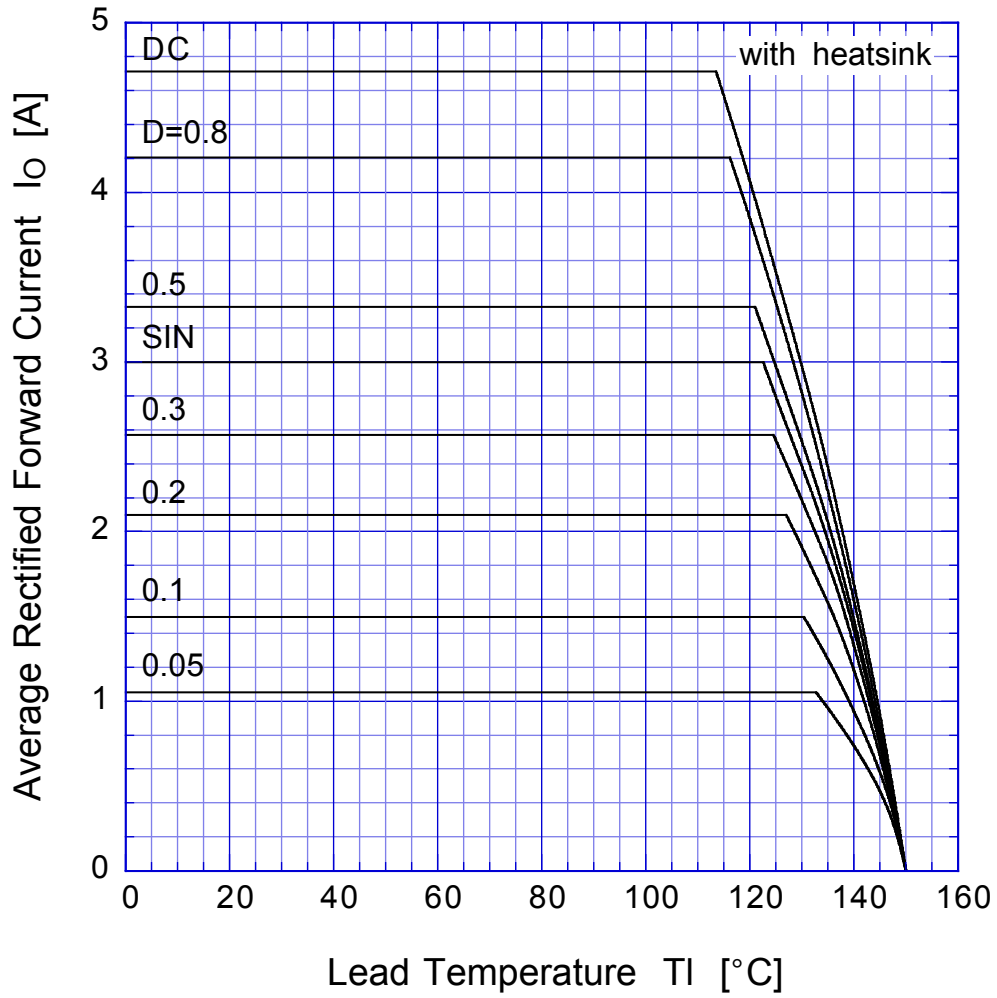


$$V_R = V_{RM}$$

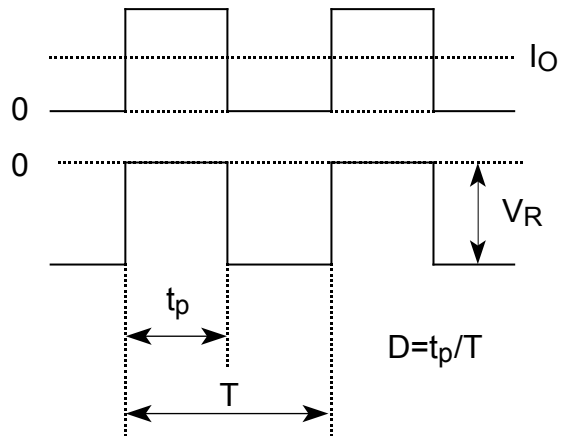


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# Derating Curve

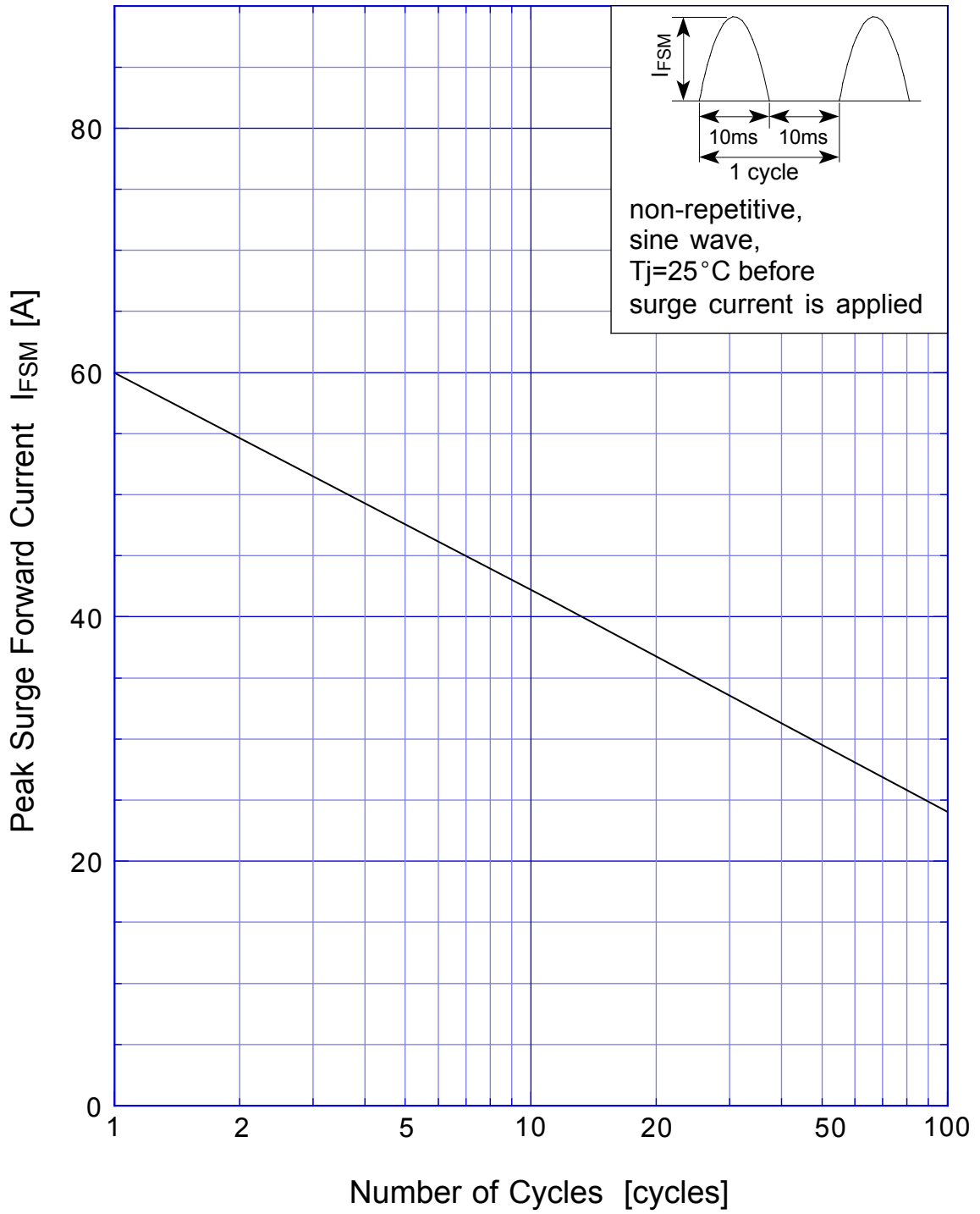


$$V_R = V_{RM}$$

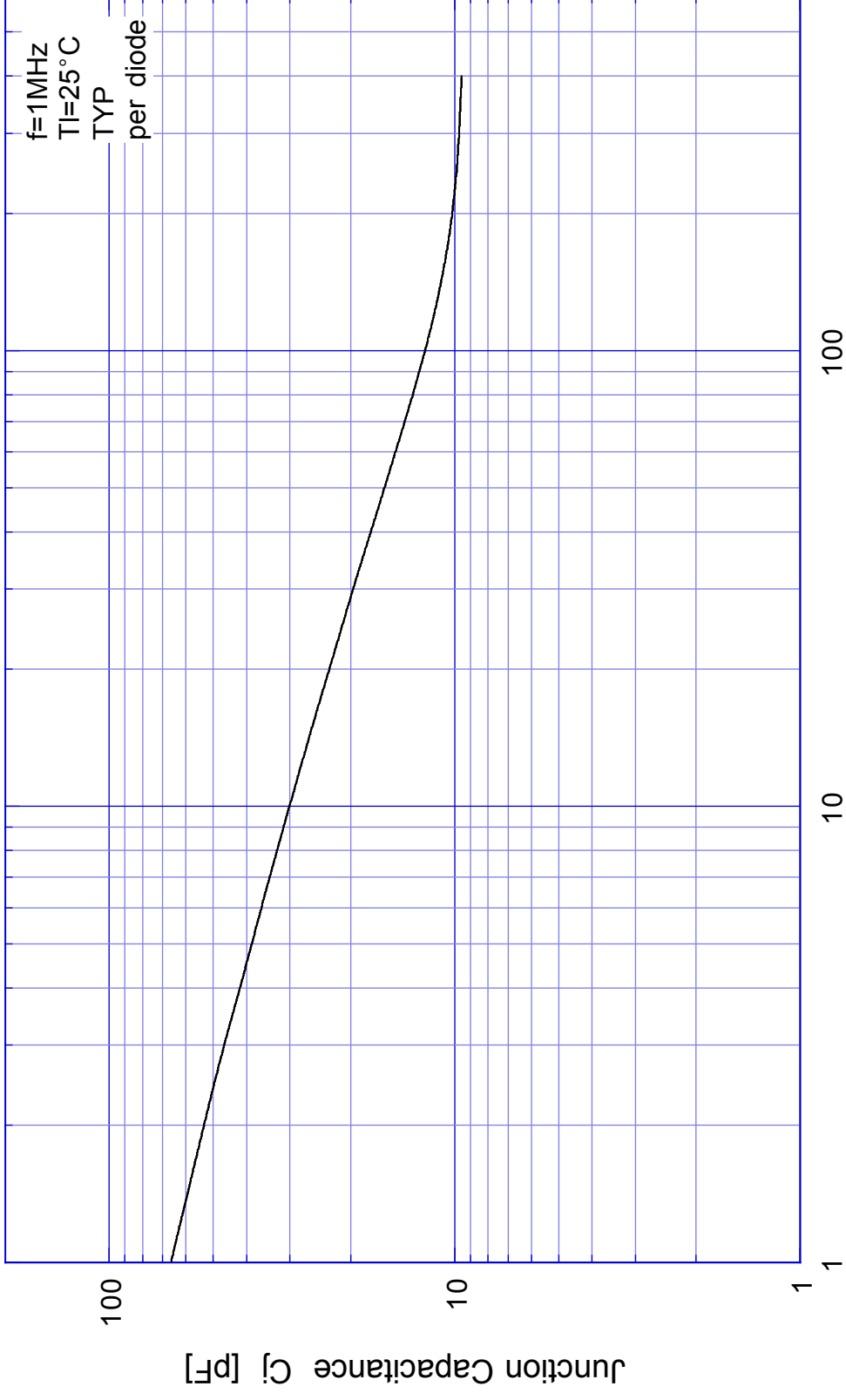


# S3L40

## Peak Surge Forward Capability



# S3L40 Junction Capacitance



f=1MHz  
TI=25°C  
TYP  
per diode