

S3L40

400V 3A

FEATURES

- Low noise
- trr50ns
- Applicable to Automatic Insertion

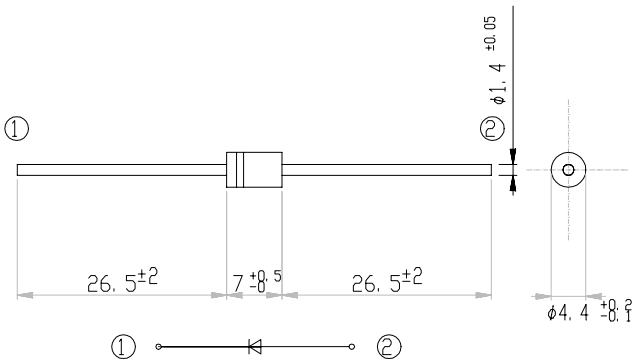
APPLICATION

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

OUTLINE DIMENSIONS

Case : AX14

(Unit : mm)



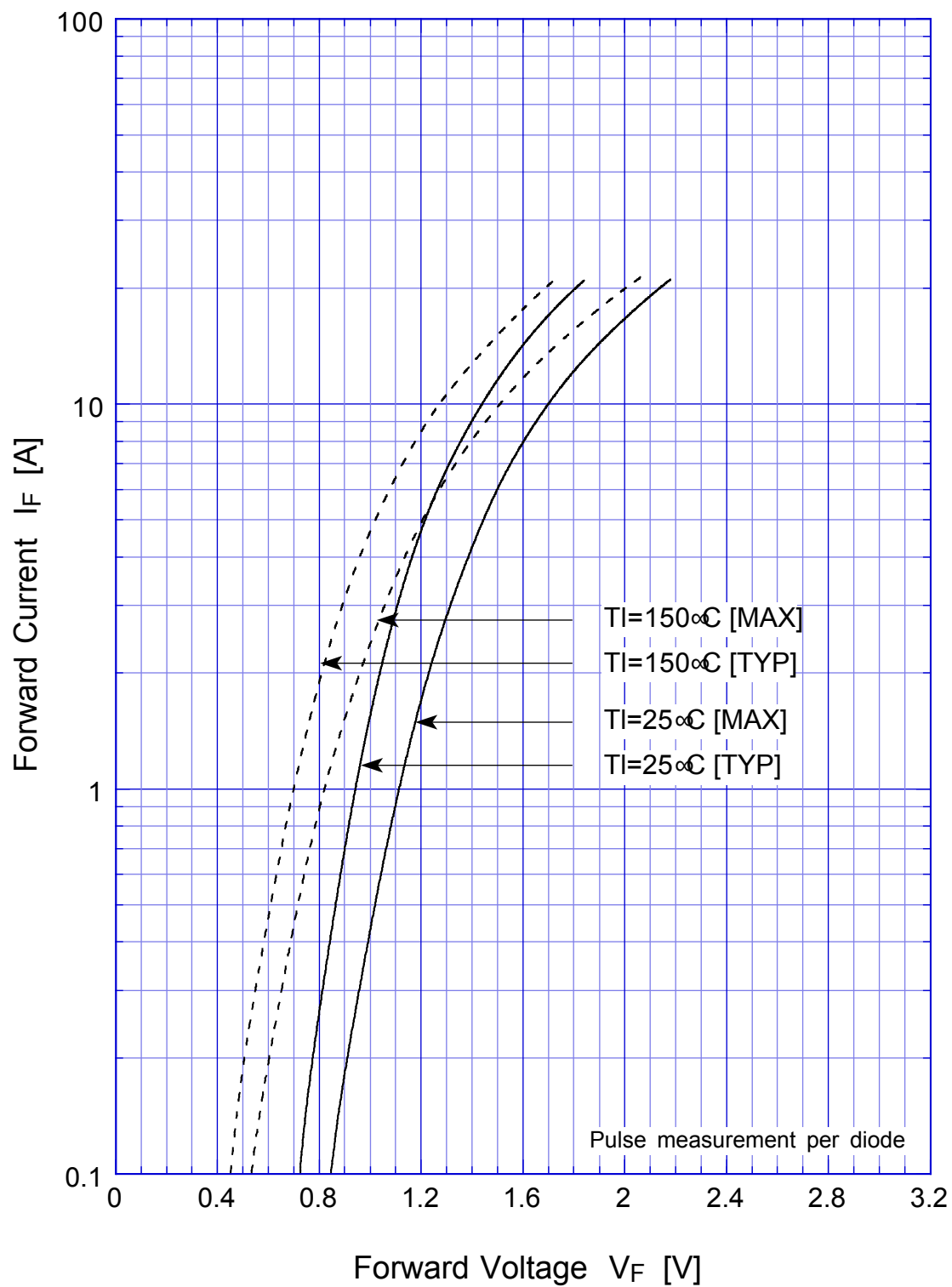
RATINGS

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

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		400	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Without heatsink Ta=25°C	1.8	A
		50Hz sine wave, R-load, Tl=123°C	3.0	
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A

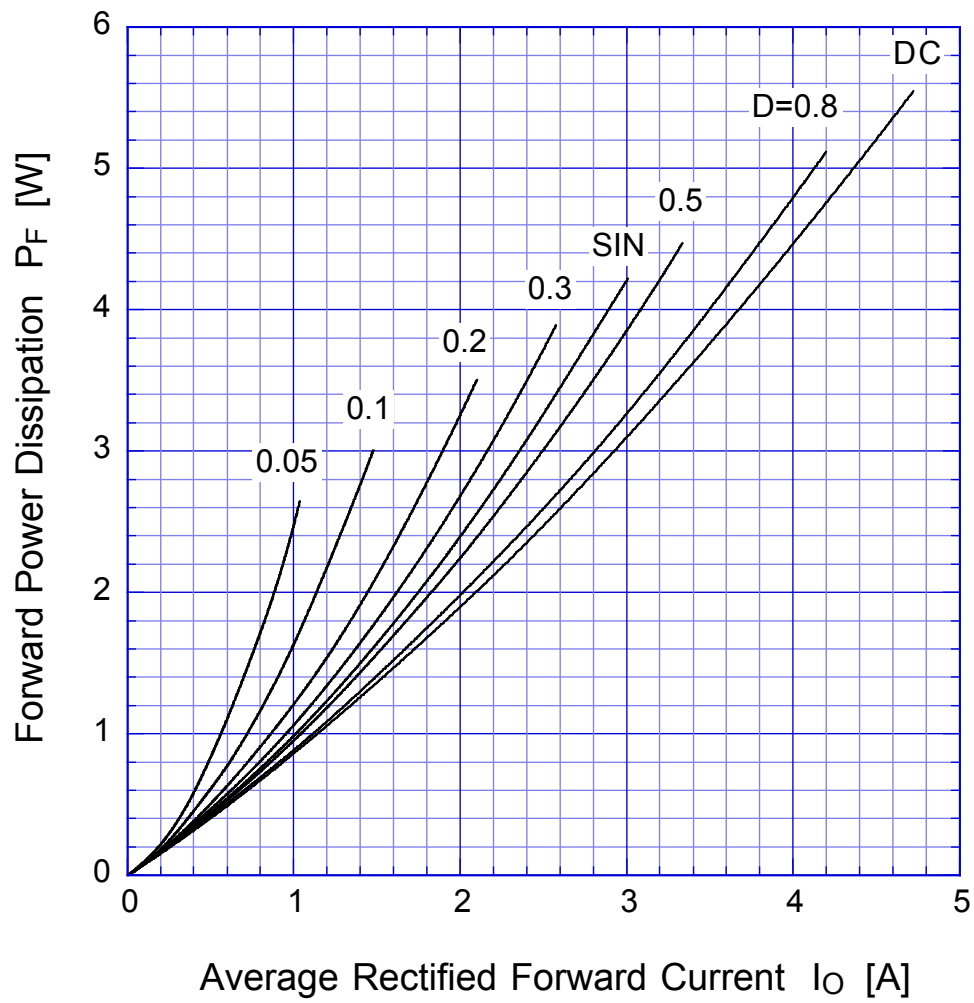
● Electrical Characteristics (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=3.0A, Pulse measurement	Max.1.3	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max.50	ns
Thermal Resistance	θjl	junction to lead	Max.6.5	°C/W
	θja	junction to ambient	Max.60	

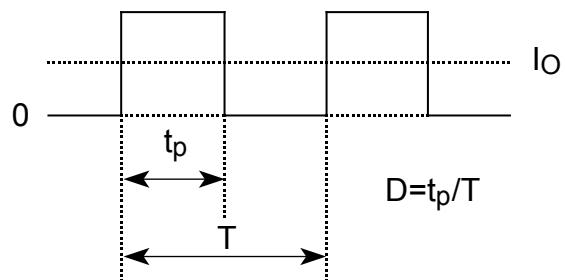


S3L40

Forward Power Dissipation

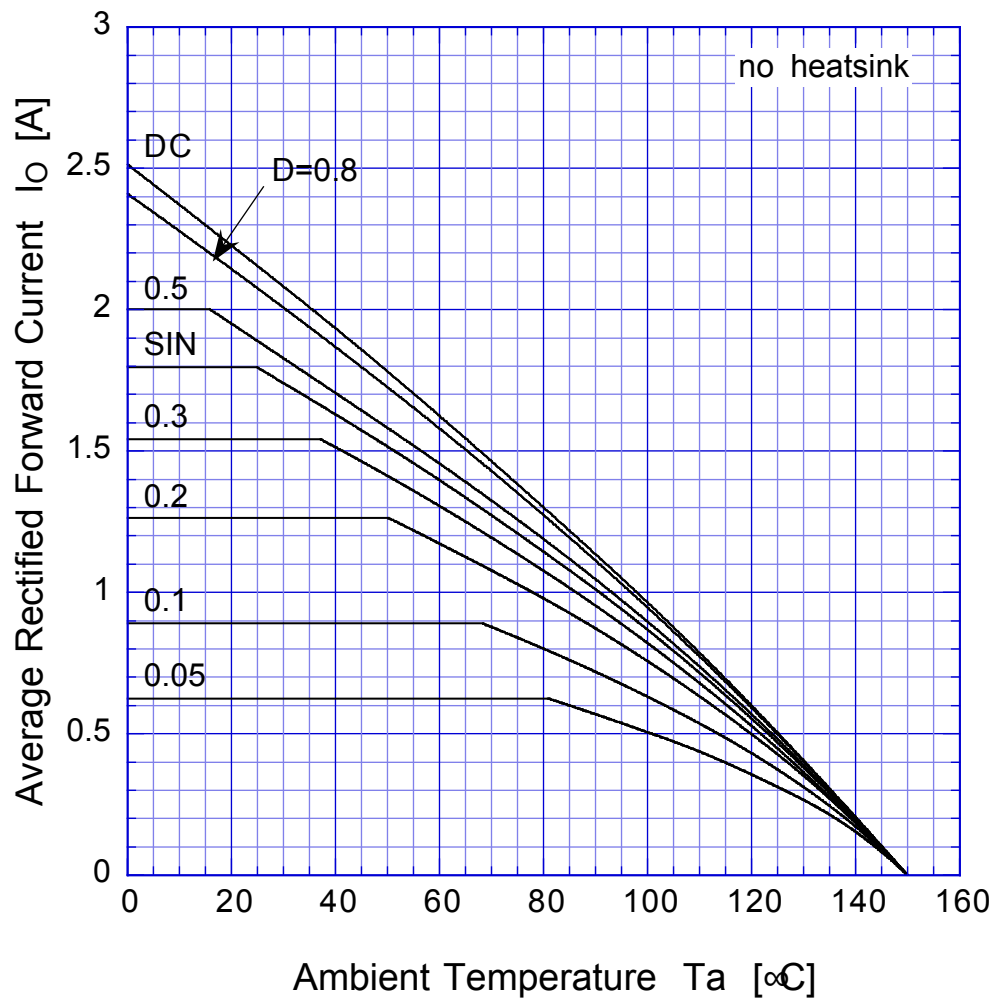


$T_j = T_{jmax}$

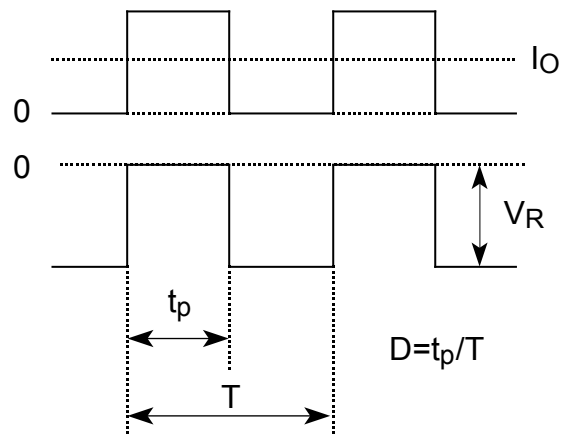


S3L40

Derating Curve

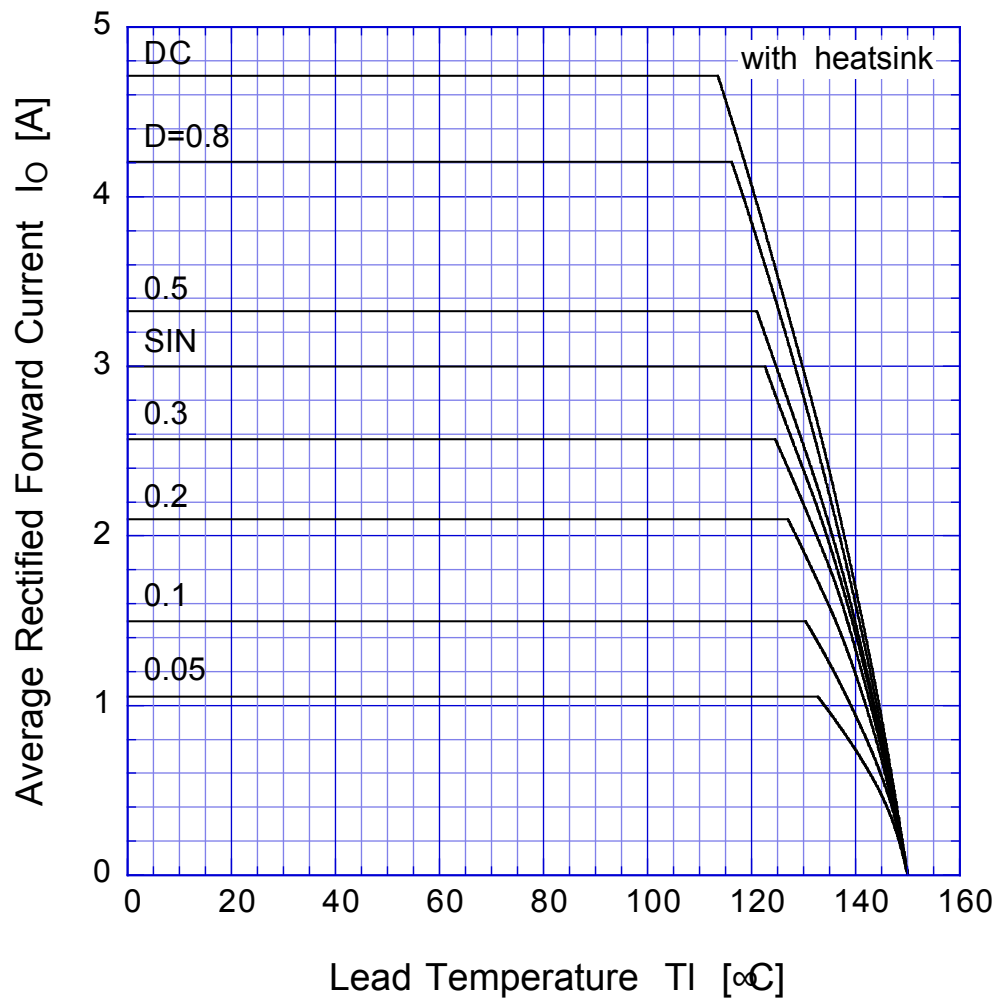


$$V_R = V_{RM}$$

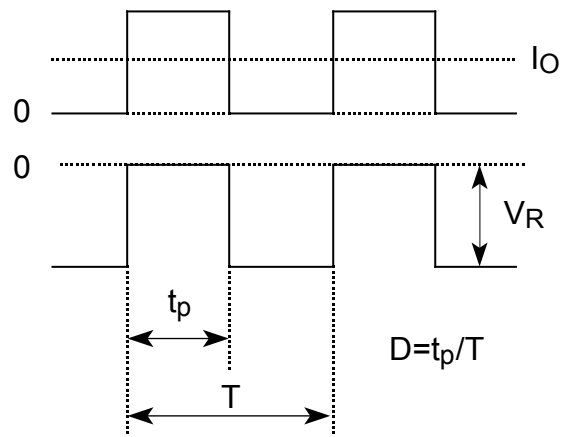


S3L40

Derating Curve

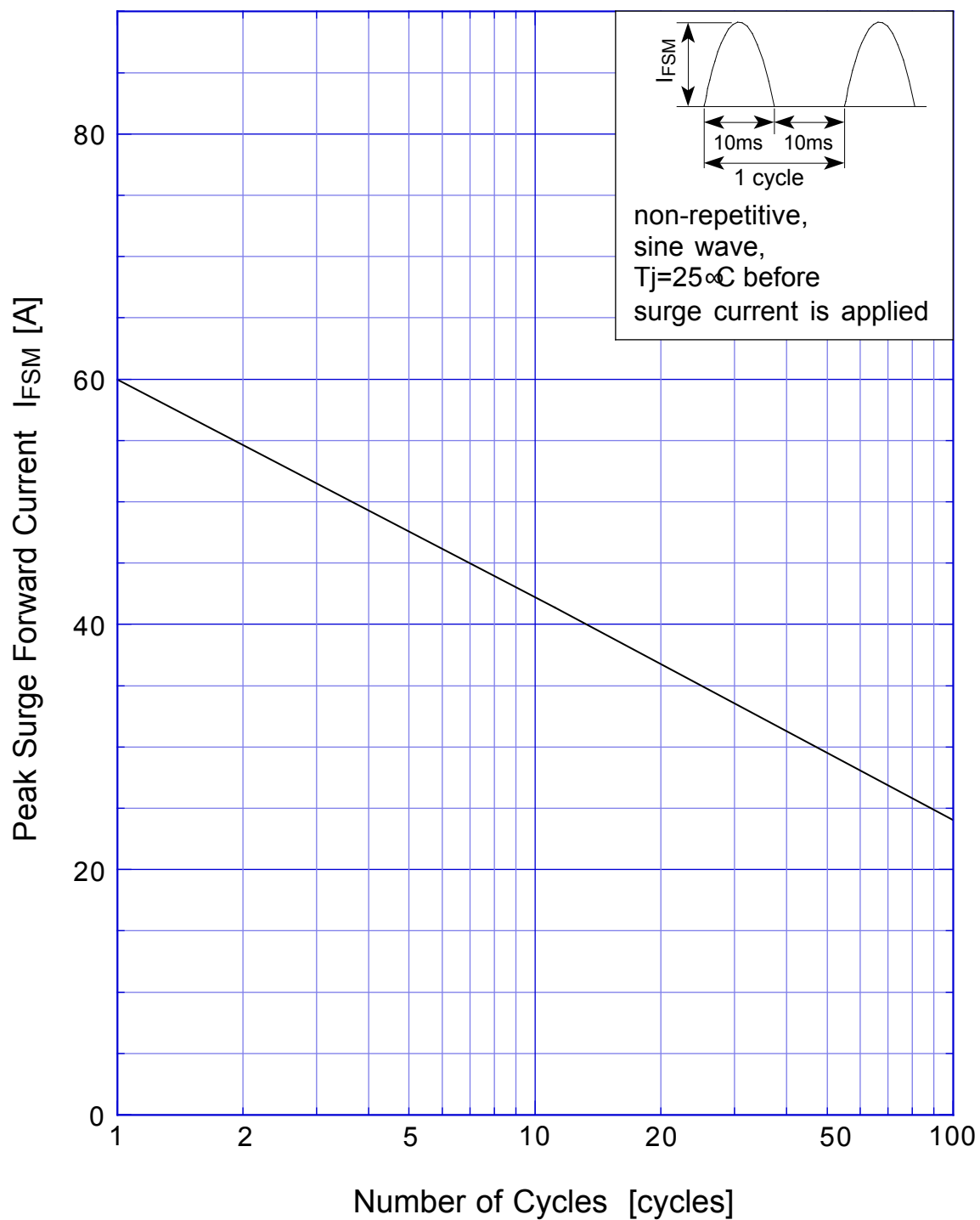


$$V_R = V_{RM}$$



S3L40

Peak Surge Forward Capability



S3L40 Junction Capacitance

