

SHINDENGEN

Super Fast Recovery Rectifiers

Single

D1NL40

400V 0.9 A

FEATURES

- Low noise
- trr50ns
- 5 mm pitch mounting applicable

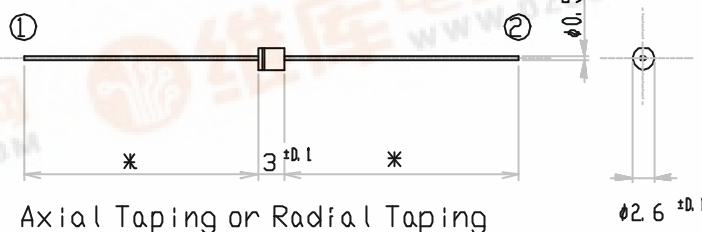
APPLICATION

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

OUTLINE DIMENSIONS

Case : AX057

Unit : mm



① ———— ②

*Taping Code No.4000:20^{MIN}
 No.4060:27^{MIN}
 No.4070:15^{MIN}

RATINGS

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

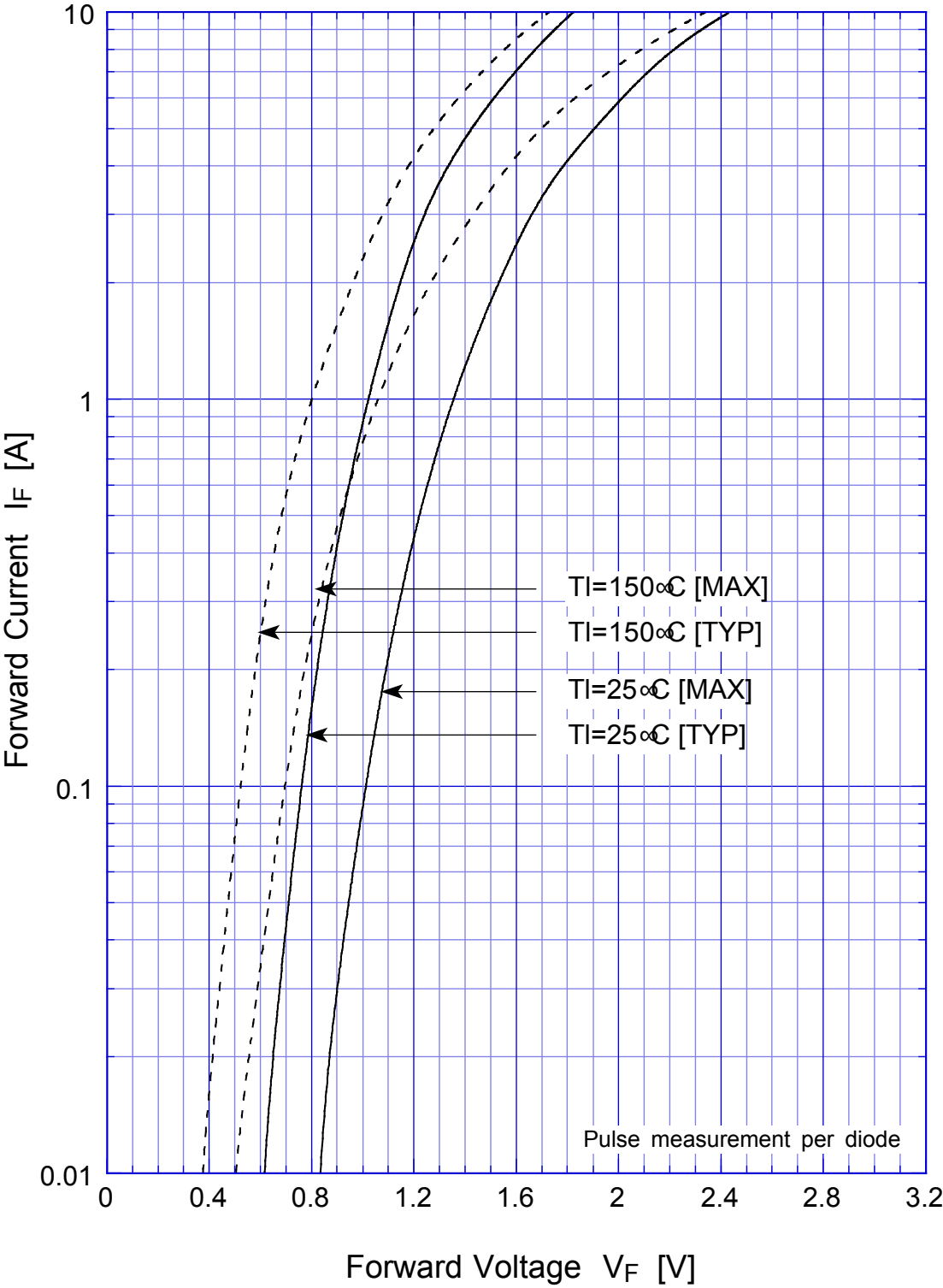
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, Ta=25°C	0.9	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	A

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =0.9A, Pulse measurement	Max.1.3	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.50	ns
Thermal Resistance	θ _{jl}	junction to lead	Max.10	°C/W
	θ _{ja}	junction to ambient, On P.C.B. Lead length=5mm	Max.113	

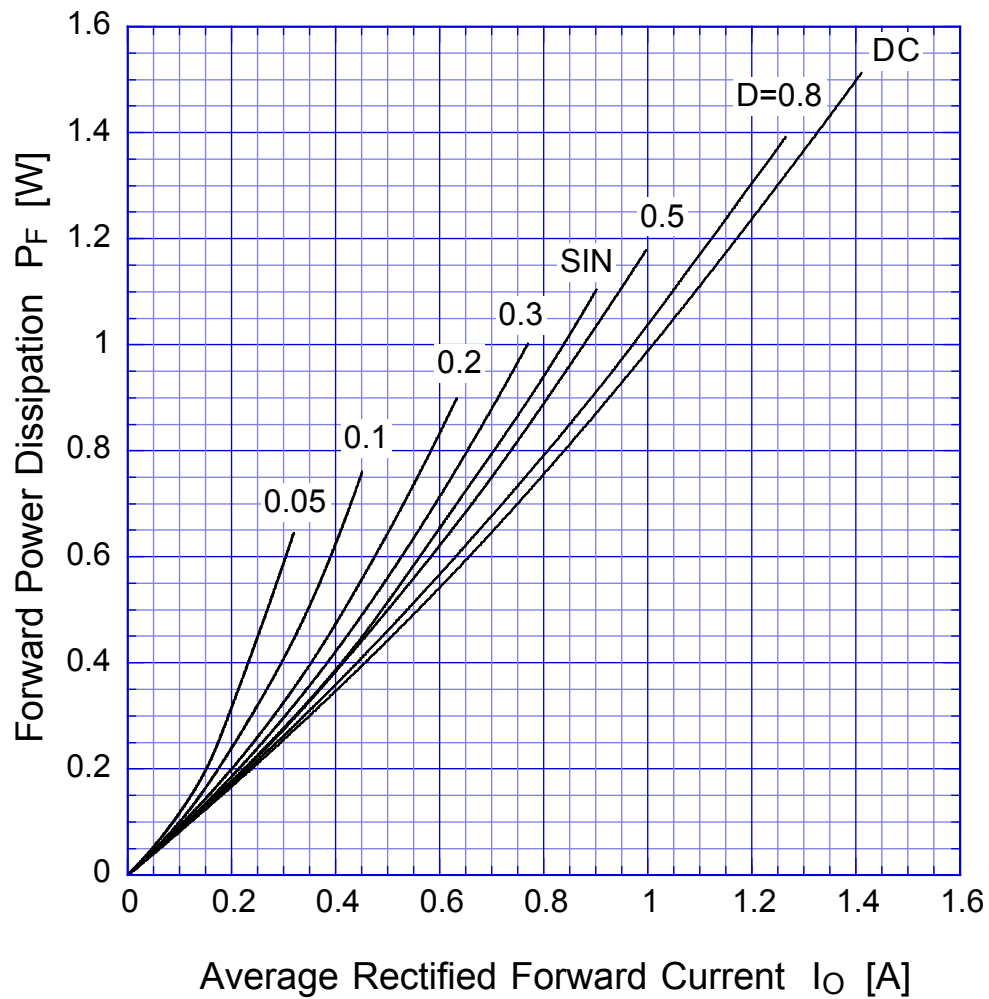
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Forward Voltage

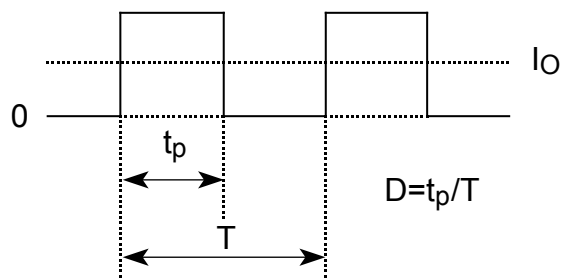


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Forward Power Dissipation

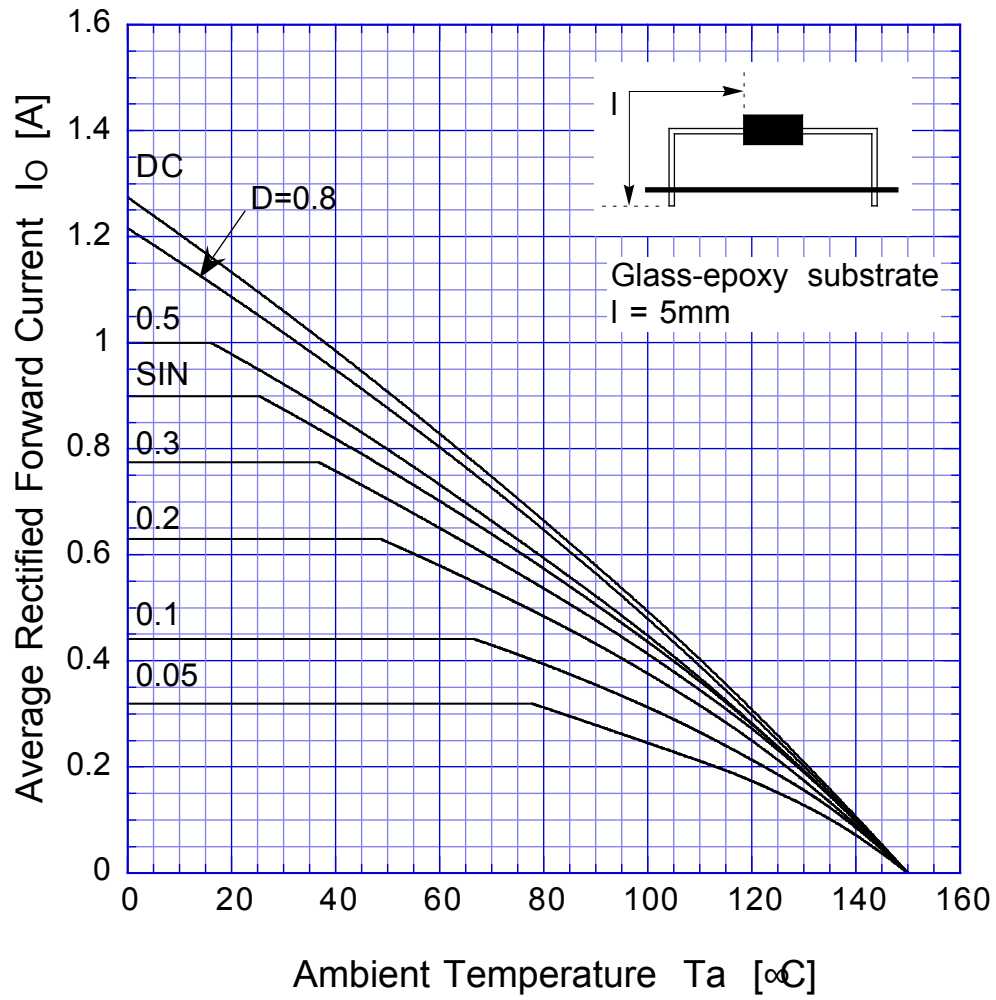


$T_j = T_{jmax}$

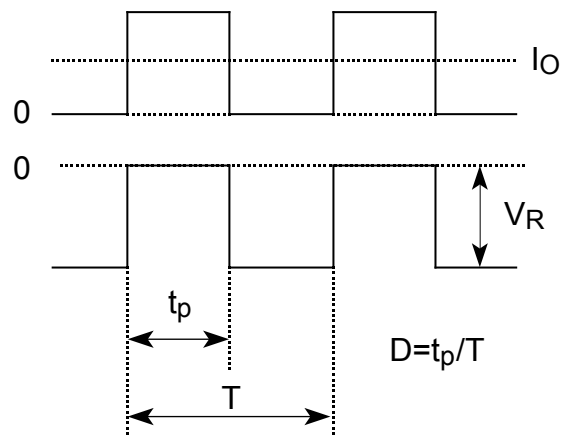


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Derating Curve

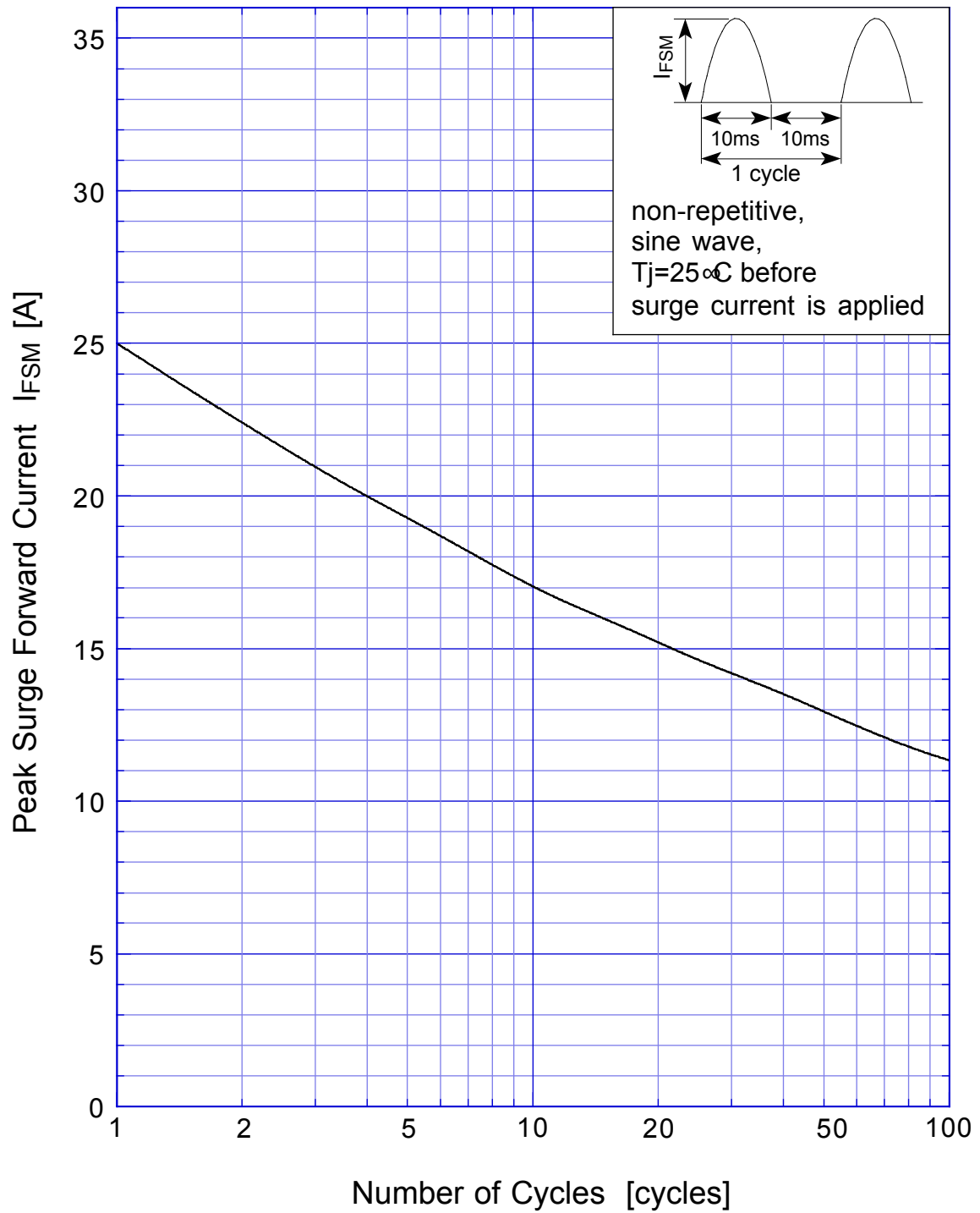


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D1NL40 Junction Capacitance

