

D1NL40

400V 0.9 A

FEATURES

- Low noise
- trr50ns
- 5 mm pitch mounting applicable

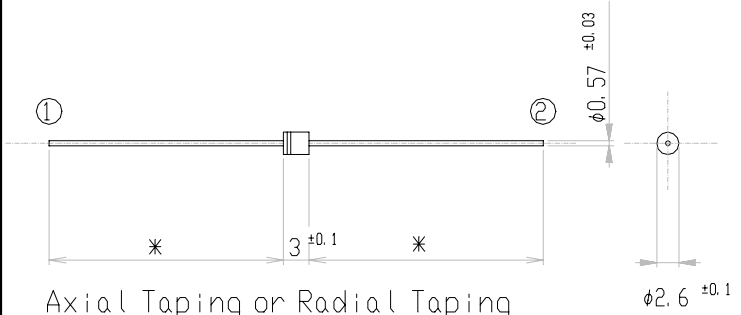
APPLICATION

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

OUTLINE DIMENSIONS

Case : AX057

Unit : mm



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

RATINGS

- Absolute Maximum Ratings (If not specified TI=25°C)

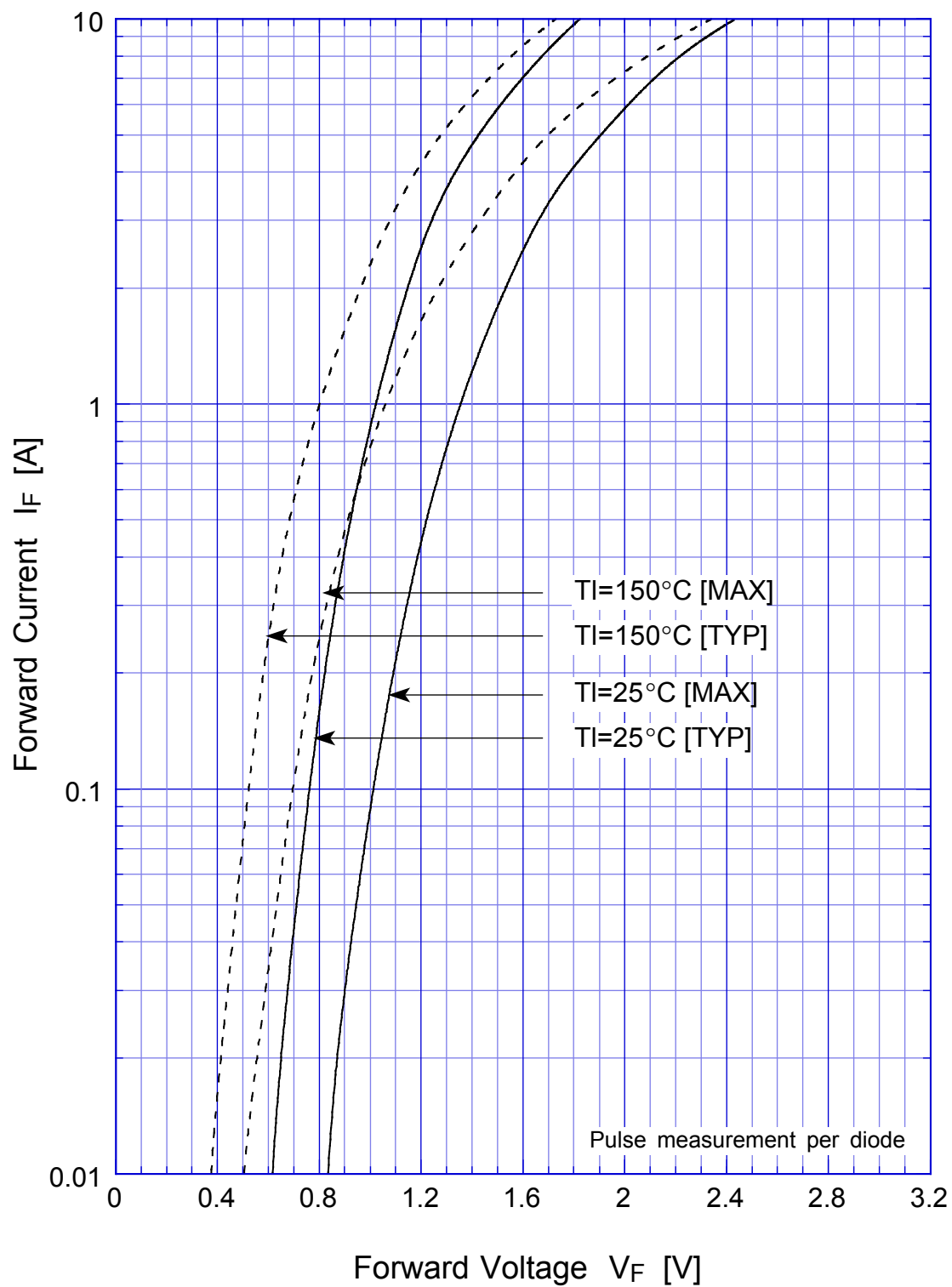
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, T _a =25°C	0.9	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =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	t_{rr}	$I_F=0.5A$, $I_R=1A$	Max.50	ns
Thermal Resistance	θ_{jl}	junction to lead	Max.10	$^{\circ}C/W$
	θ_{ja}	junction to ambient, On P.C.B. Lead length=5mm	Max.113	

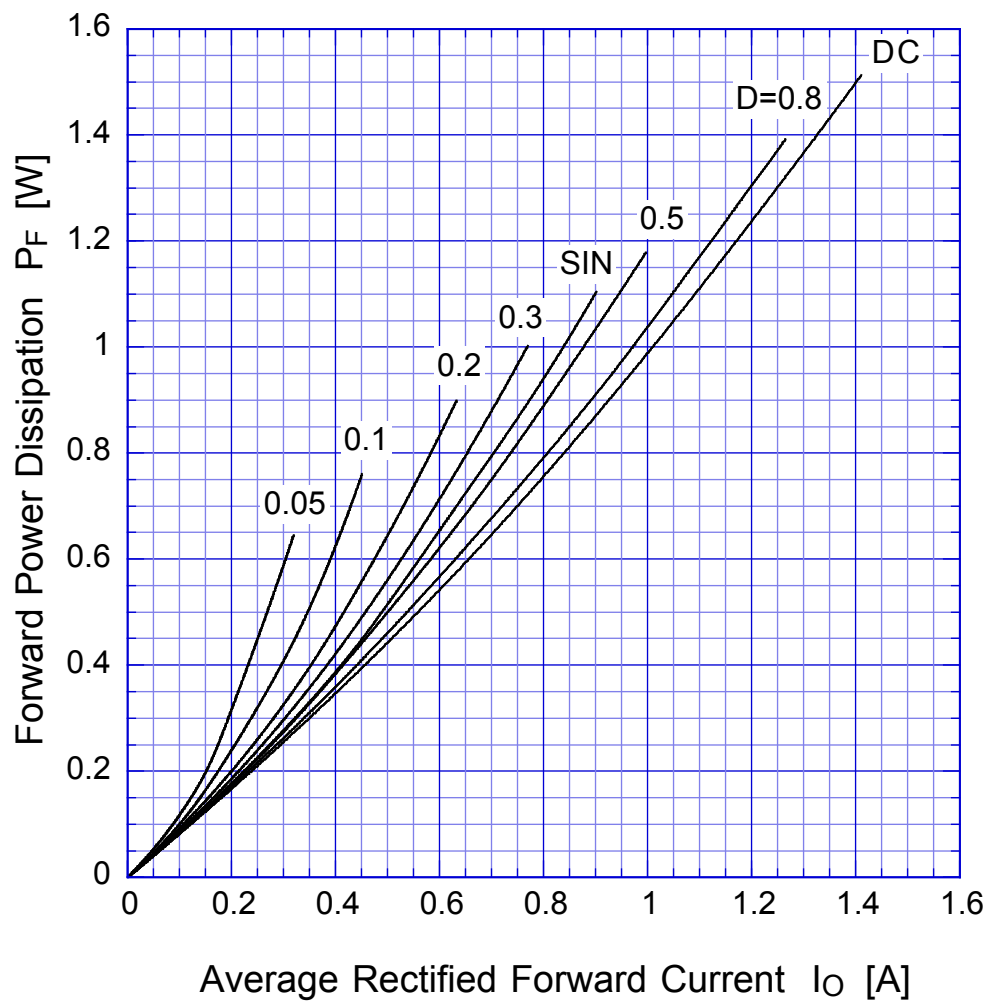
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Forward Voltage



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Forward Power Dissipation

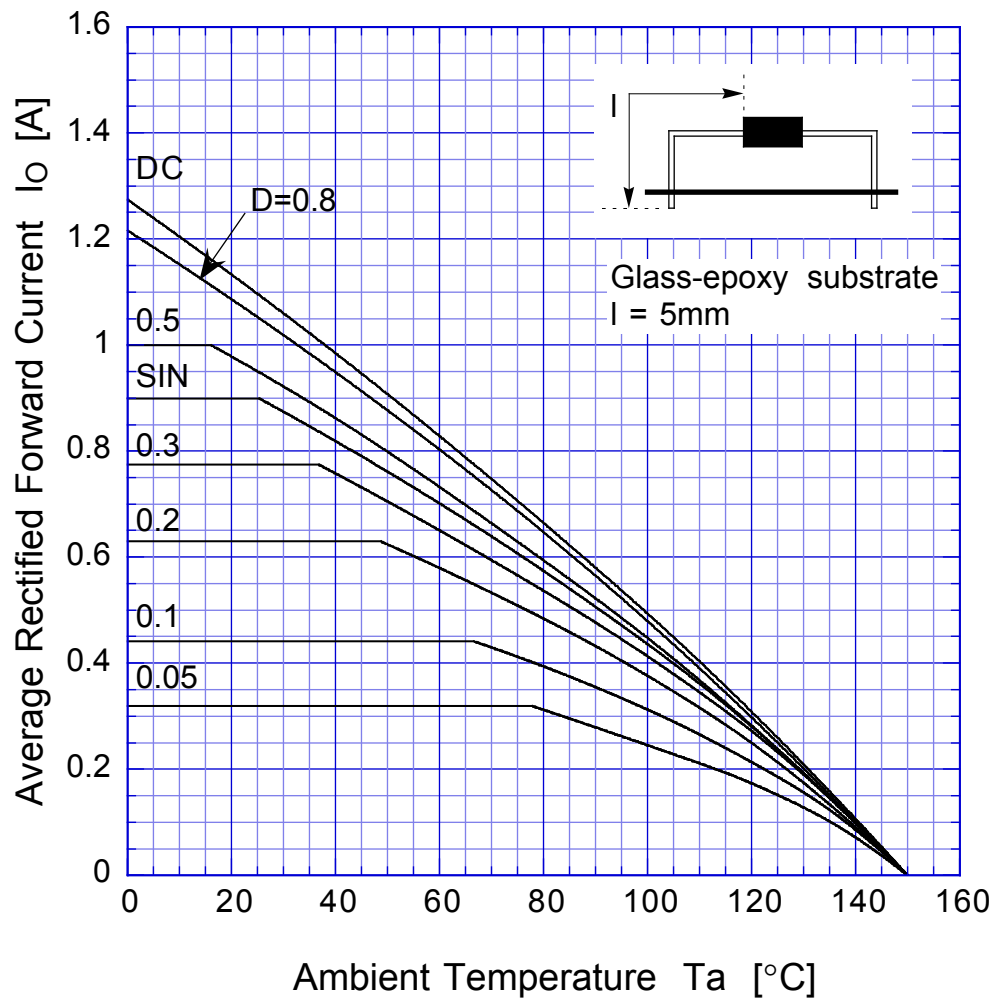


$T_j = T_{jmax}$

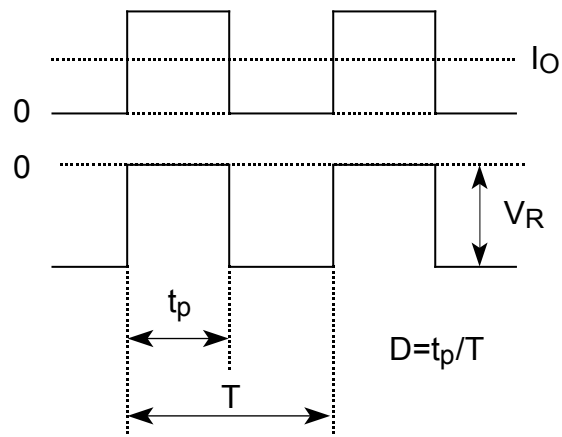


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Derating Curve

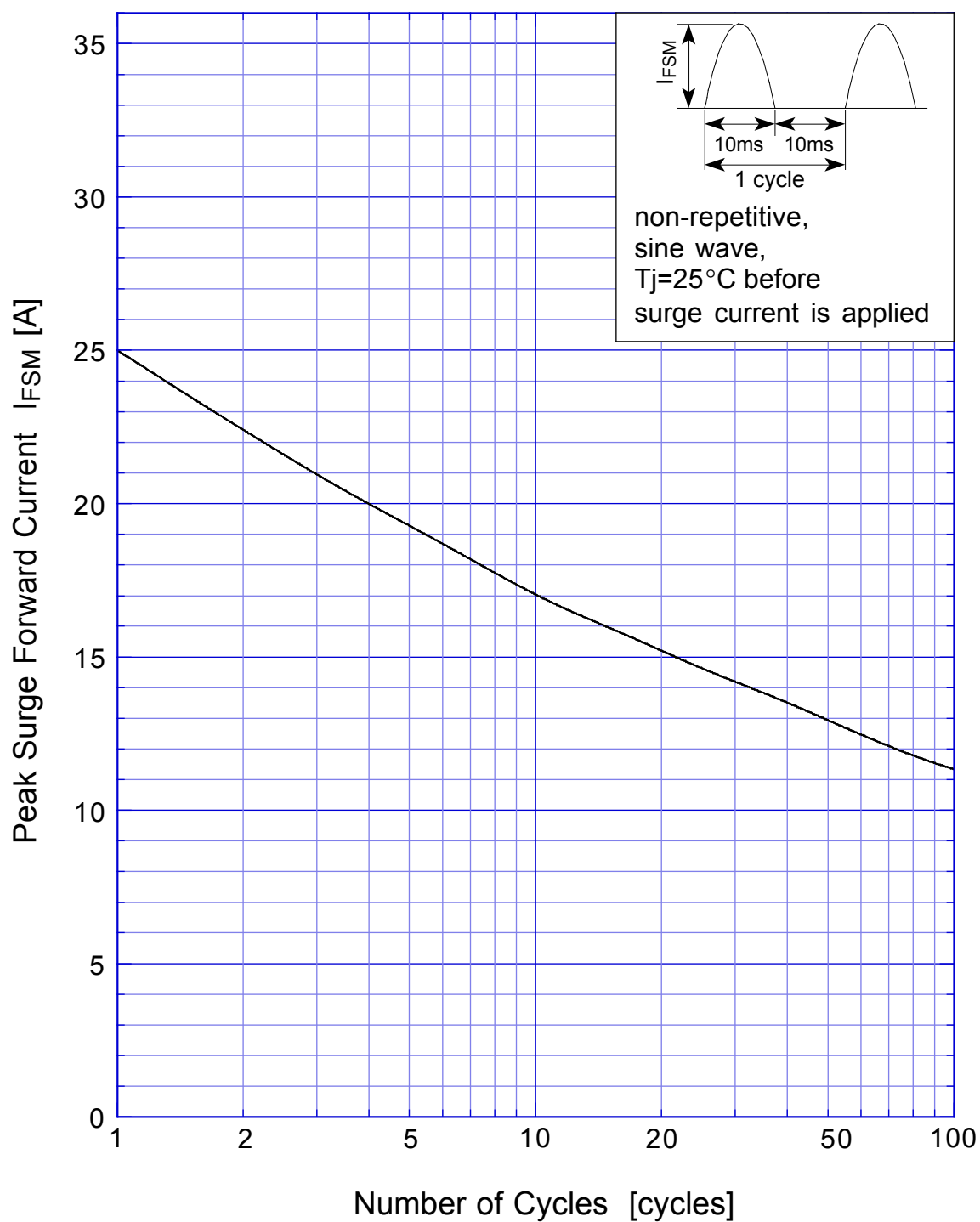


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D1NL40 Junction Capacitance

