

D1FL40

400V 0.8A

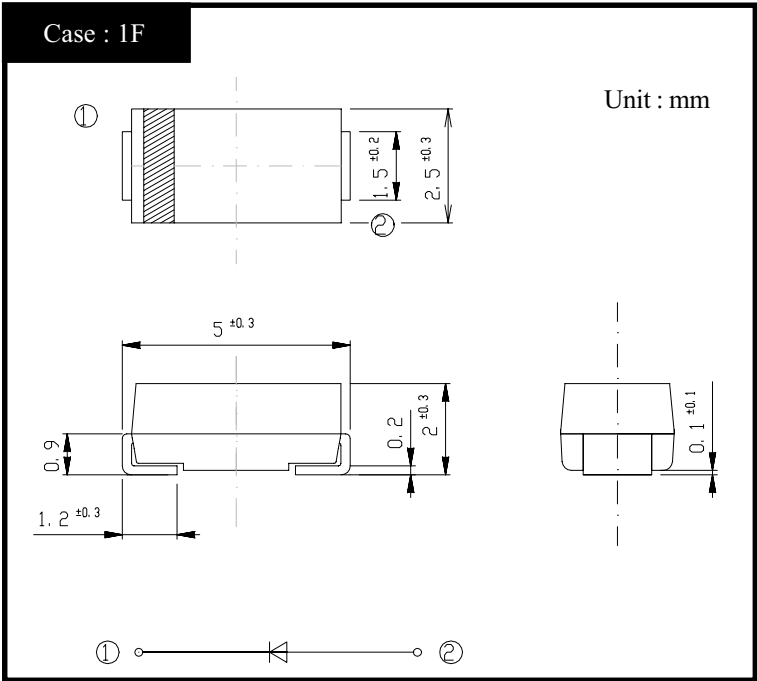
FEATURES

- Small SMT
- Low noise
- trr50ns

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

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

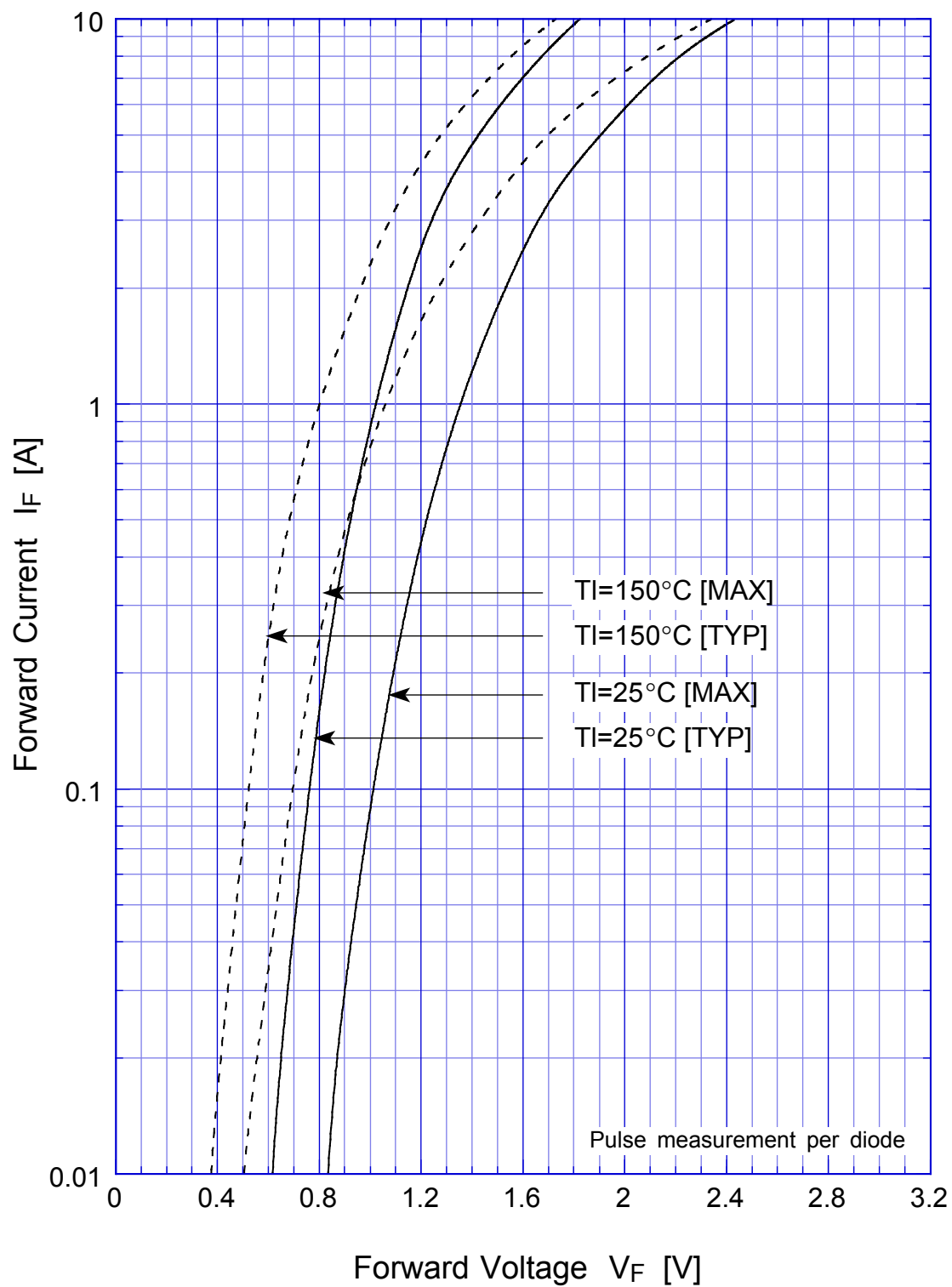
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 to 150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		400	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Ta=25°C On alumina substrate	0.8	A
		50Hz sine wave, R-load, Ta=28°C On glass-epoxy substrate	0.6	
Peak Surge Forward Current	IFSM	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	VF	IF=0.8A, Pulse measurement	Max 1.3	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max 10	μ A
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max 50	ns
Thermal Resistance	θjl	junction to lead	Max 23	°C/W
	θja	junction to ambient, On alumina substrate	Max 108	
		junction to ambient, On glass-epoxy substrate	Max 157	

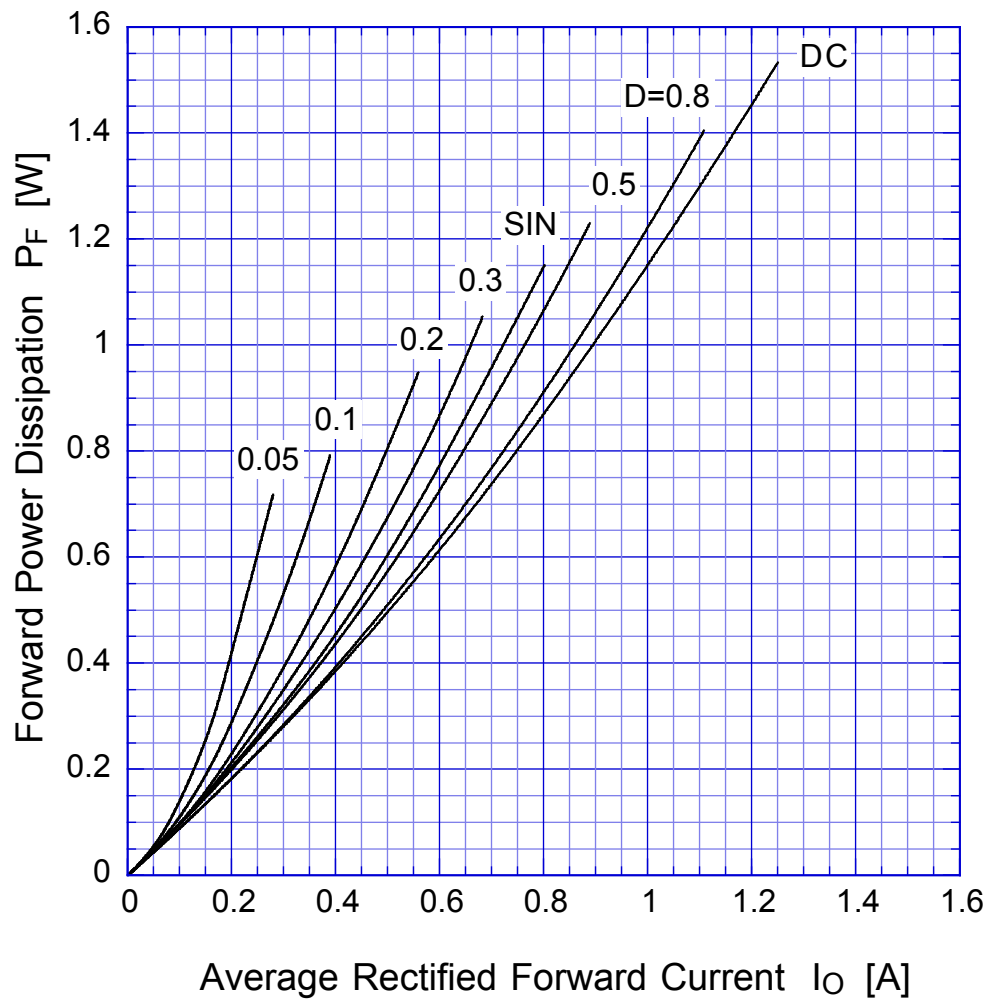
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Forward Voltage



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Forward Power Dissipation

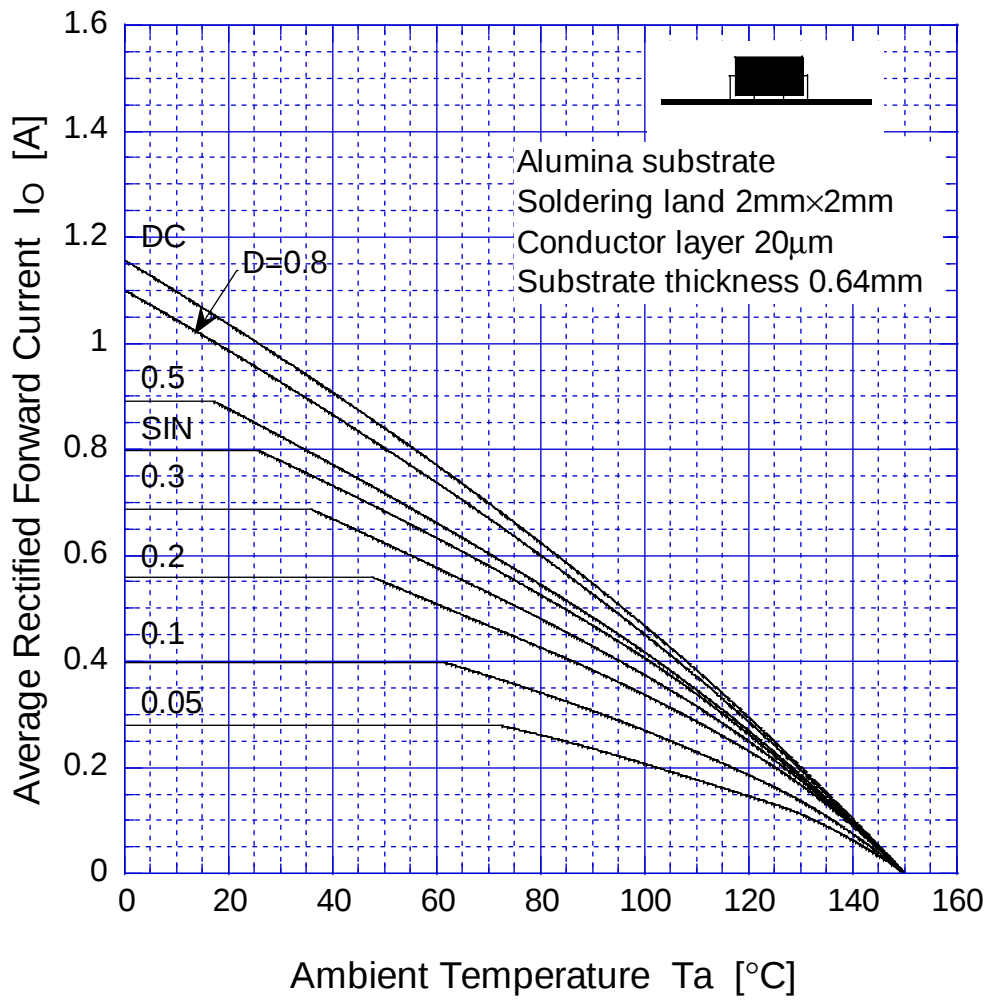


$T_j = T_{jmax}$

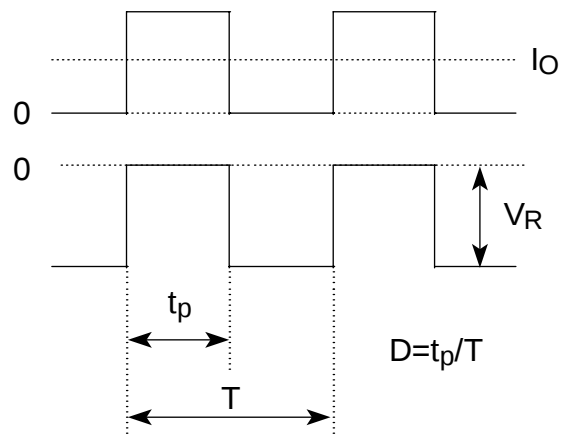


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Derating Curve

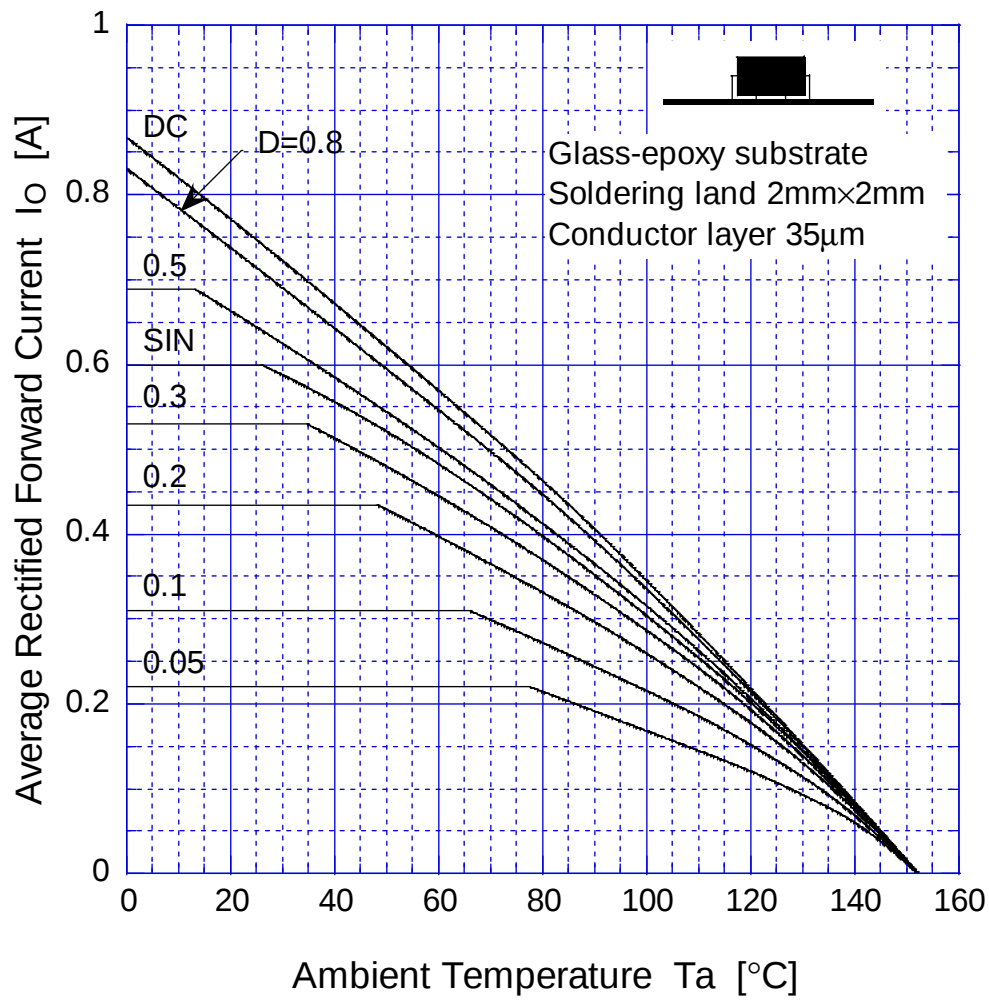


$$V_R = V_{RM}$$

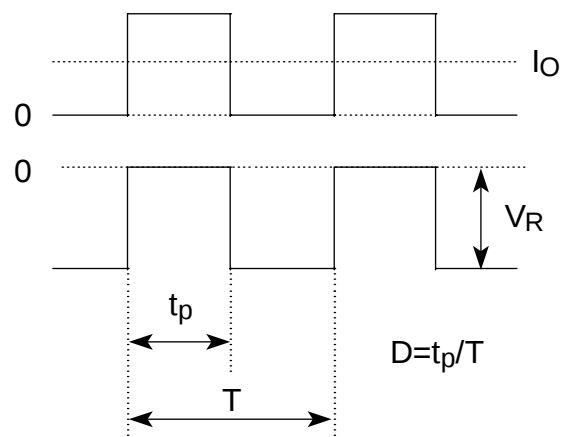


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Derating Curve

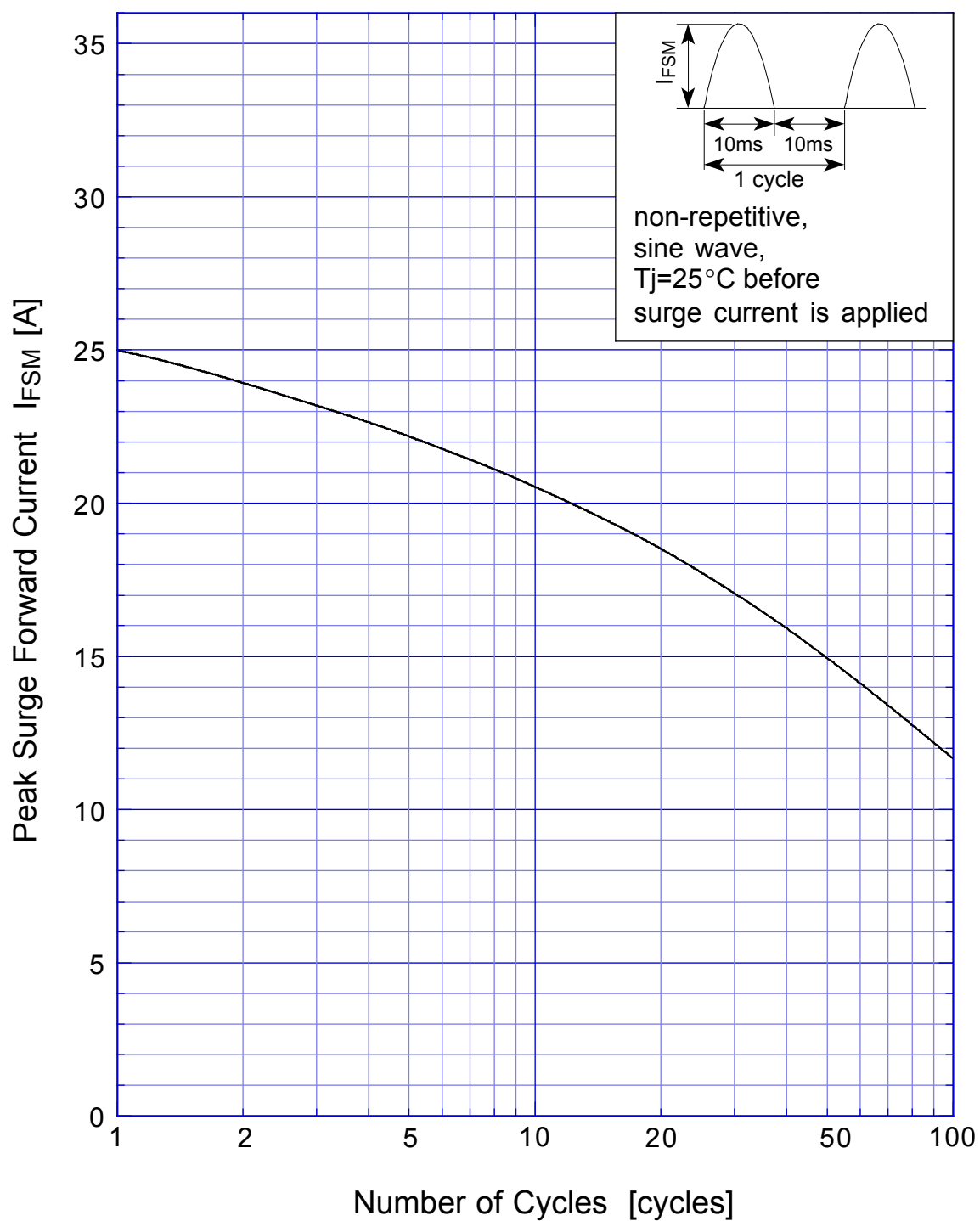


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D1FL40 Junction Capacitance

