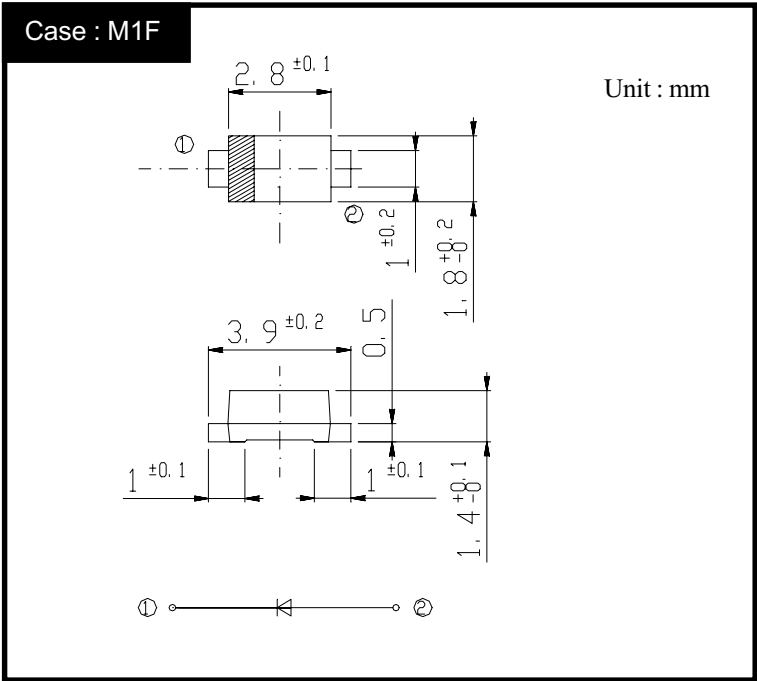


M1FE40

400V 1A

OUTLINE DIMENSIONS



RATINGS

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

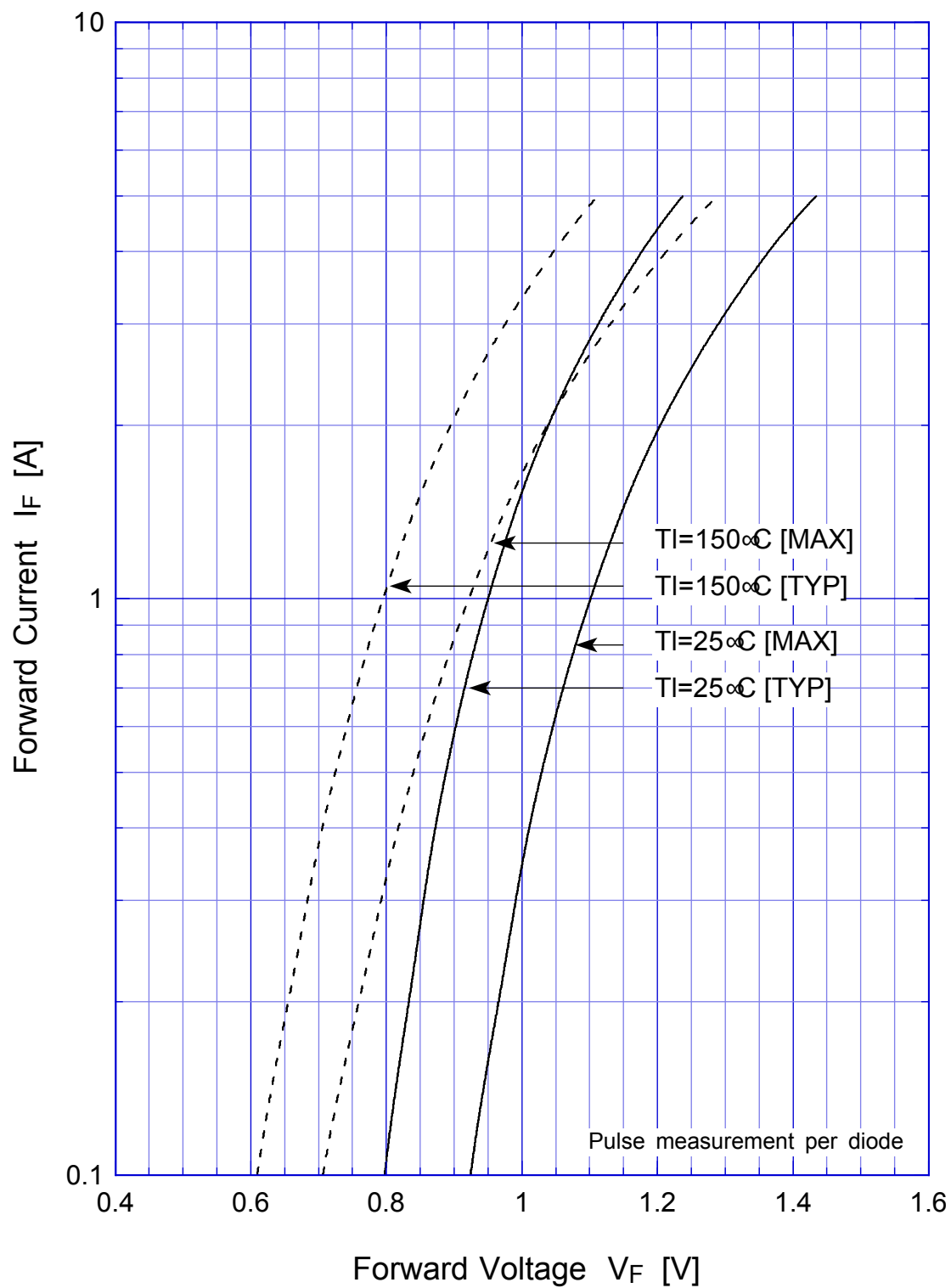
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		400	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load Ta=25°C On glass-epoxy substrate	1.0	A
		50Hz sine wave, R-load Tc=103°C	2.0	
Peak Surge Forward 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=1A, Pulse measurement	Max.1.1	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μA
Thermal Resistance	θjl	junction to lead	Max.20	°C/W
	θja	junction to ambient, On glass-epoxy substrate	Max.80	
	θjc	junction to case	Max.18	

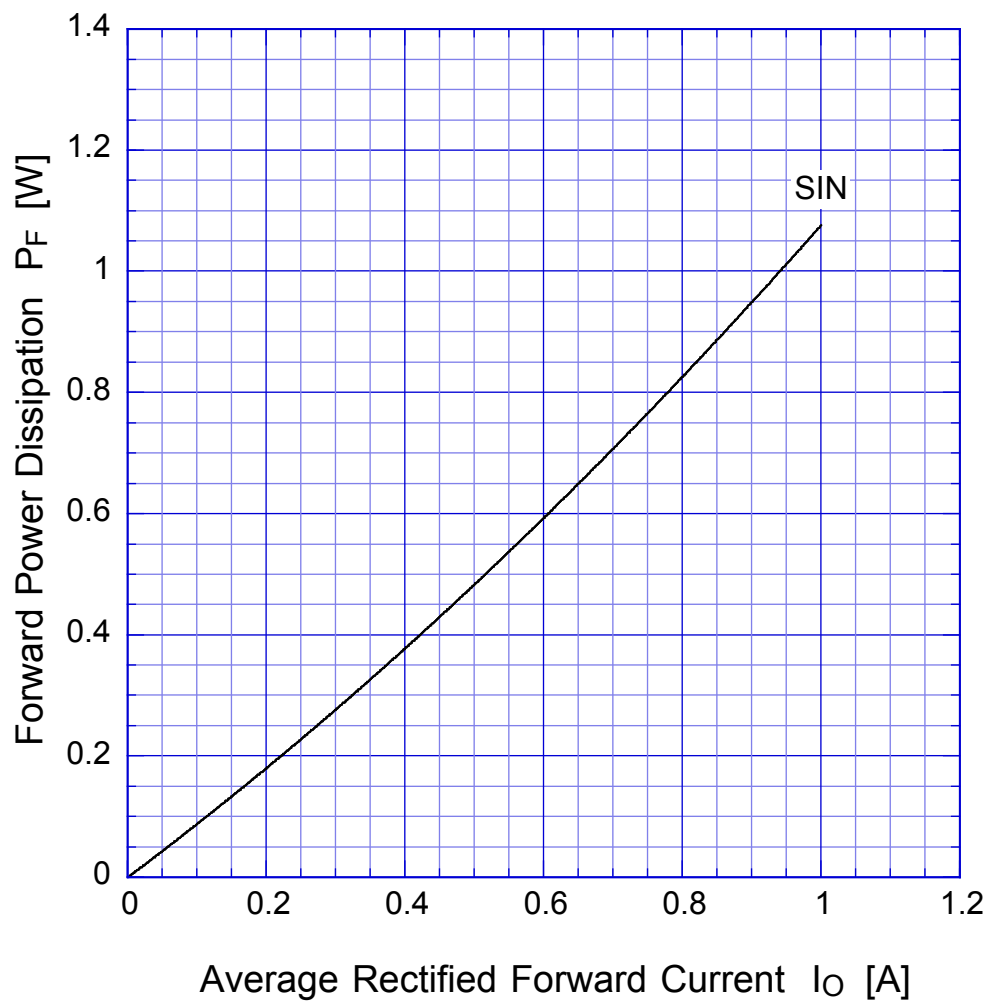
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Forward Voltage



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Forward Power Dissipation

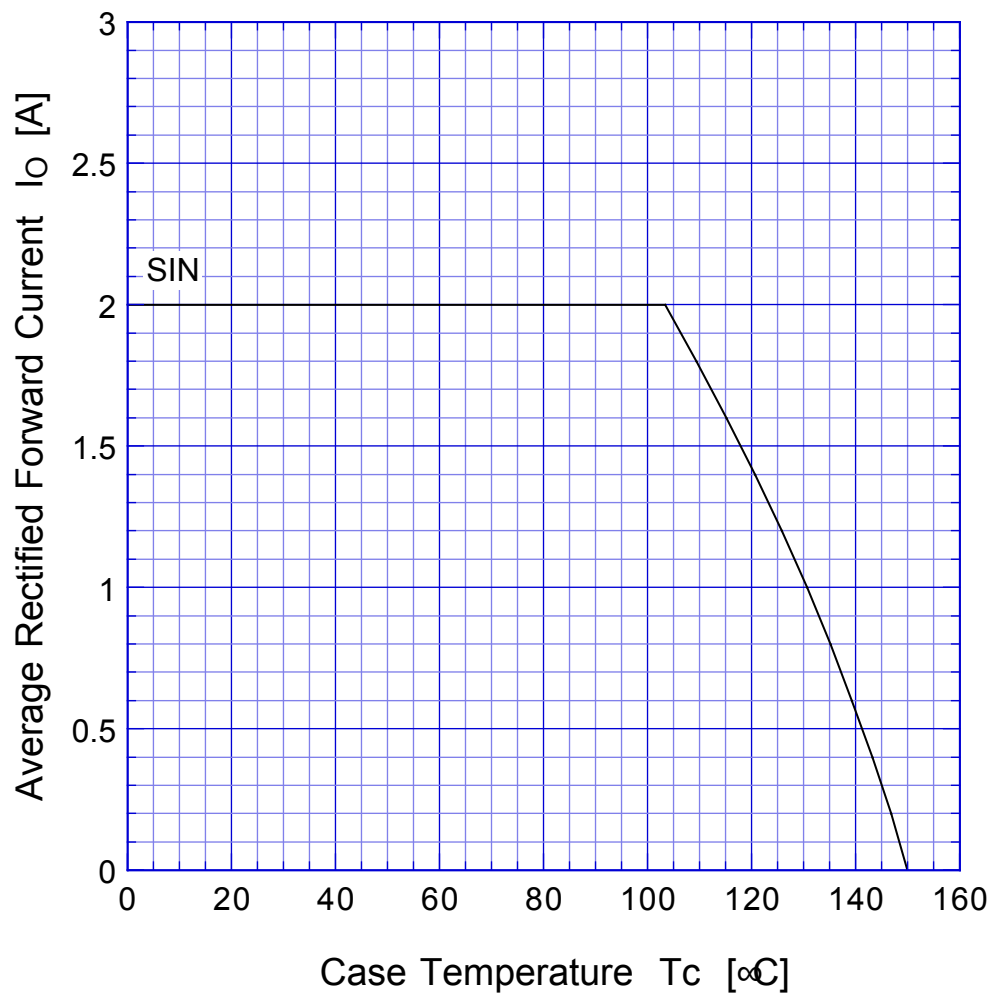


$T_j = 150^{\circ}\text{C}$

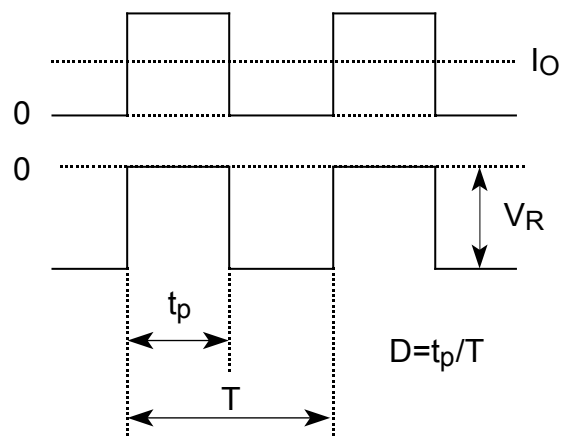
Sine wave

M1FE40

Derating Curve

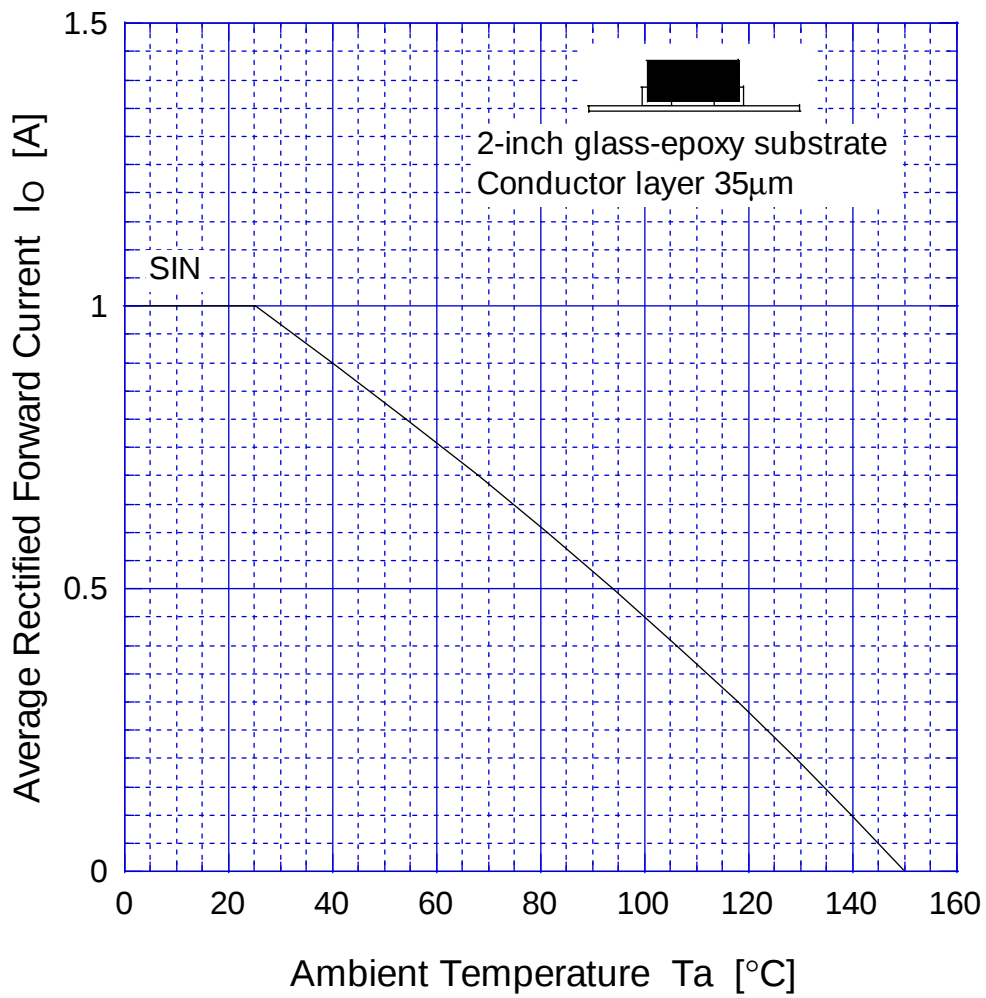


$$V_R = V_{RM}$$

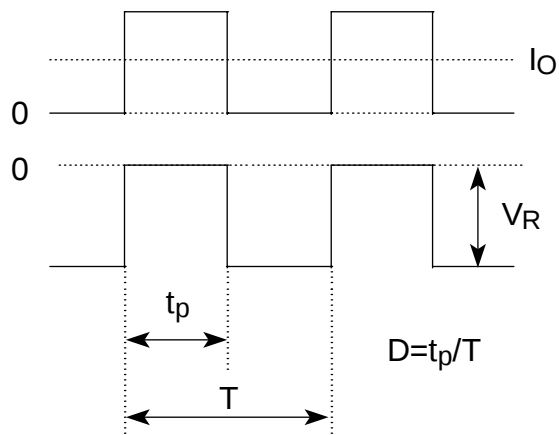


M1FE40

Derating Curve

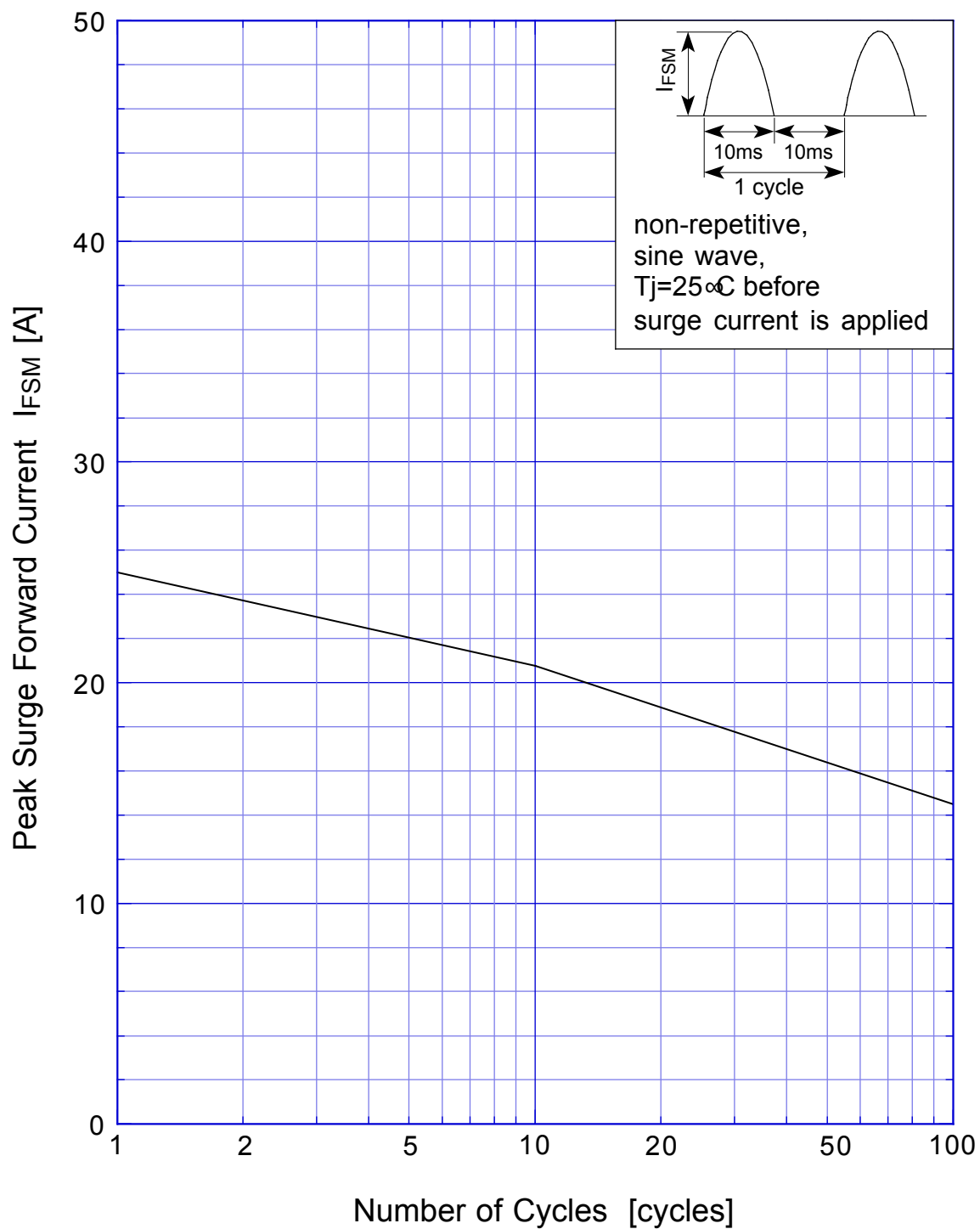


$$V_R = V_{RM}$$

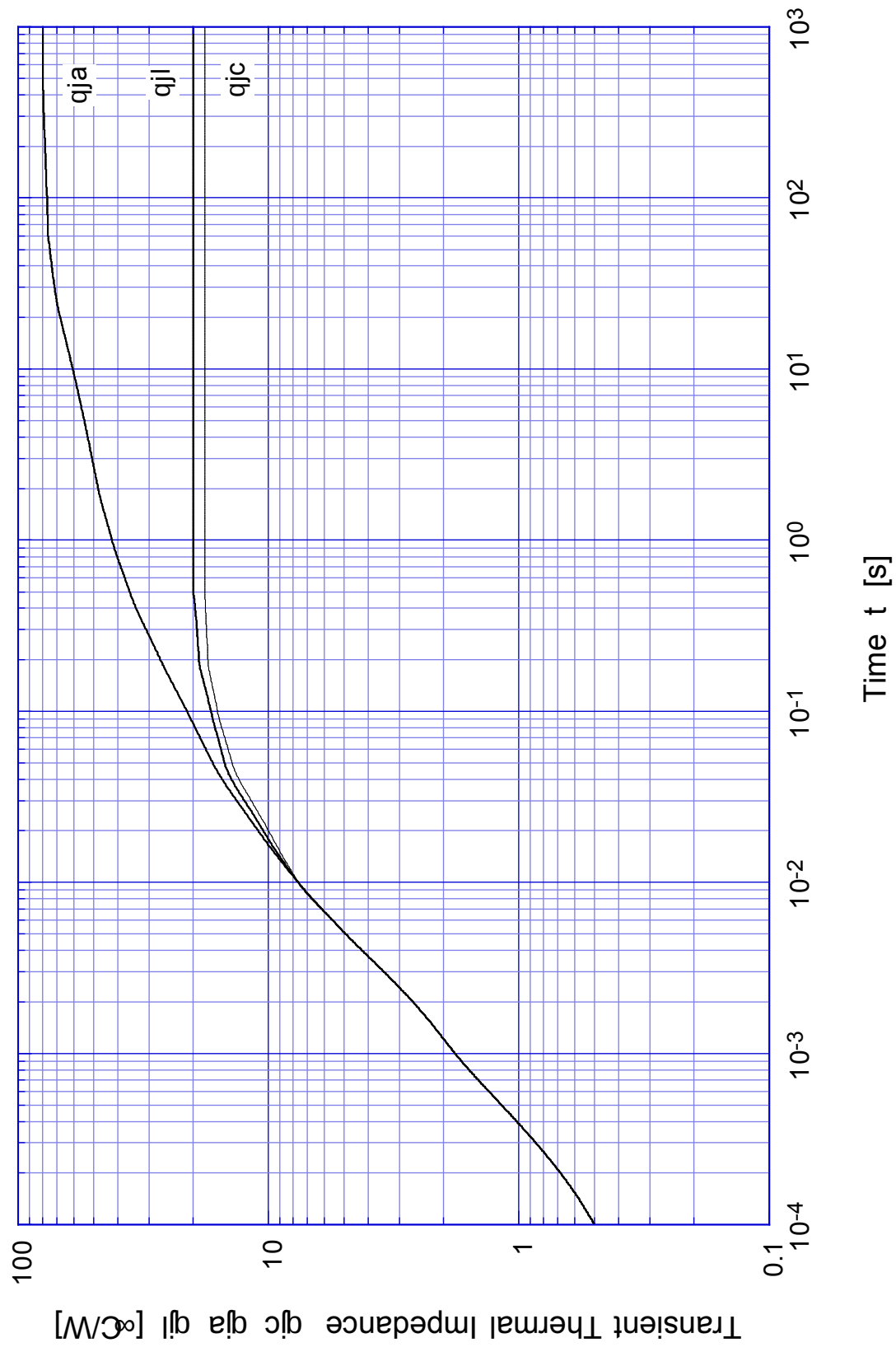


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Peak Surge Forward Capability



M1FE40 Transient Thermal Impedance



M1FE40 α_{ja} - Conductor Pattern Area

