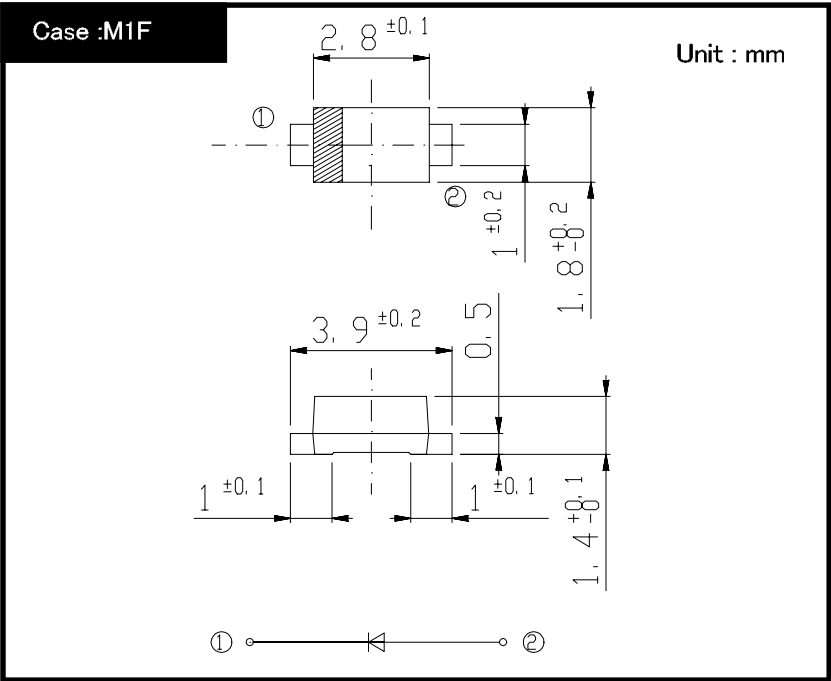


M1FH3

30V 1.5A

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (Tc=25°C)

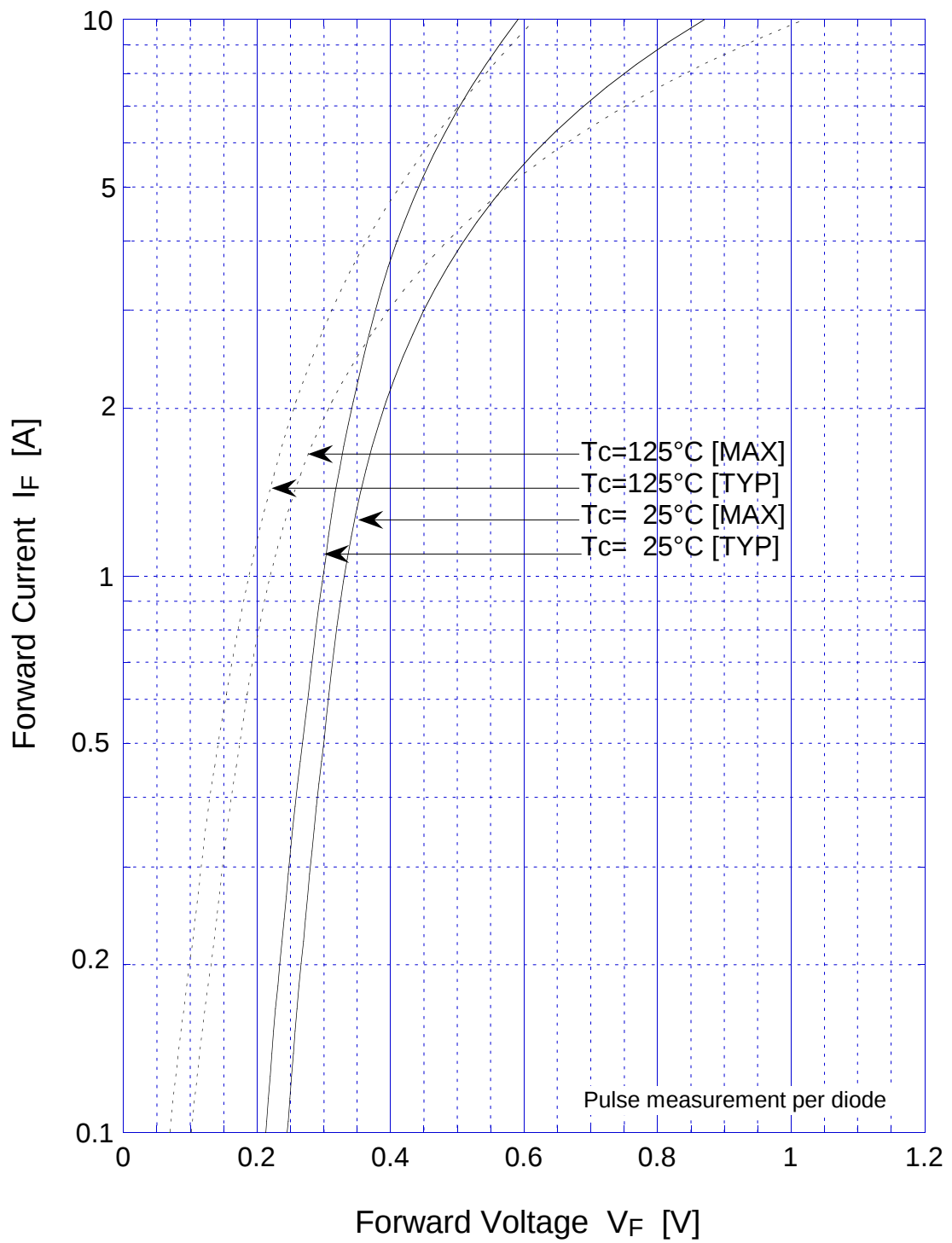
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	VRM		30	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load Tc=105°C	1.5	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A

●Electrical Characteristics Tc=25°C

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF1	IF=0.5A, Pulse measurement	Max.0.30	V
	VF2	IF=1.5A, Pulse measurement	Max.0.36	
Reverse Current	IR	VR=VRM, Pulse measurement	Max.1.0	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ.80	pF
Thermal Resistance	θjc	junction to case	Max.18	°C/W
	θjl	junction to lead	Max.20	
	θja	junction to ambient On glass-epoxy substrate	Max.80	

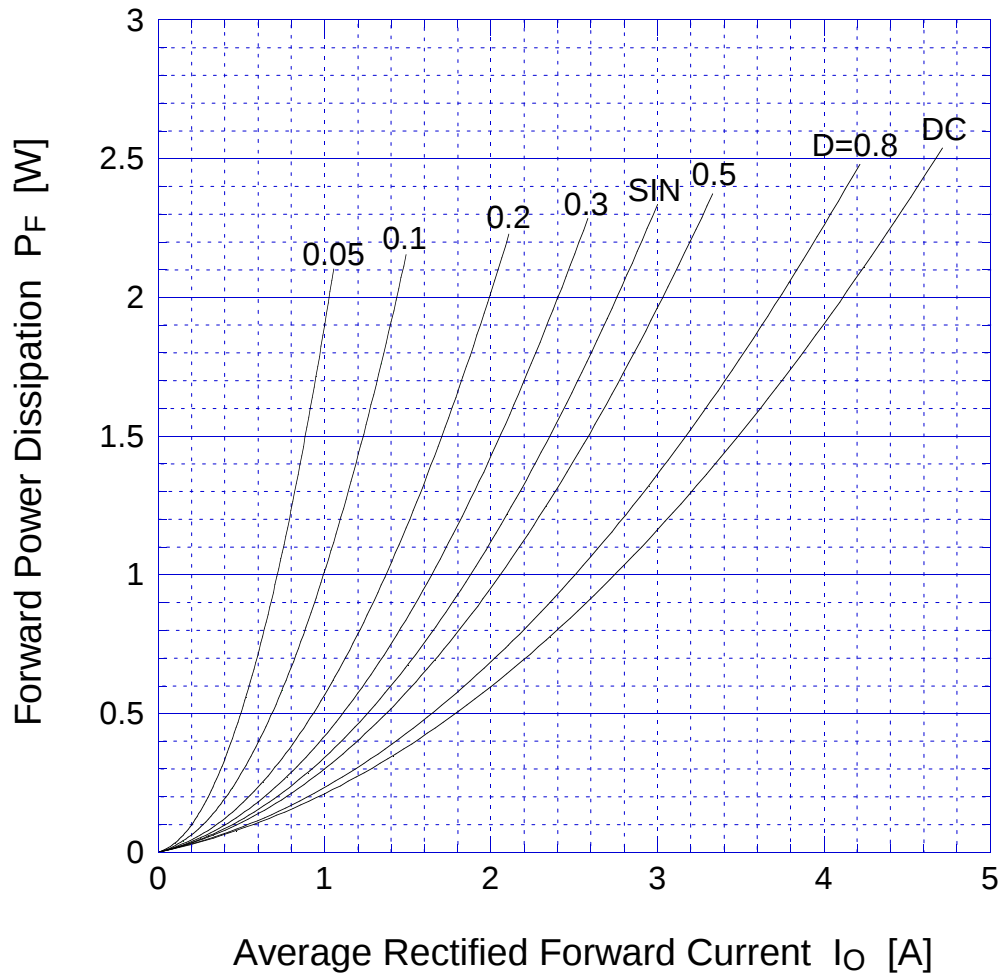
M1FH3

Forward Voltage

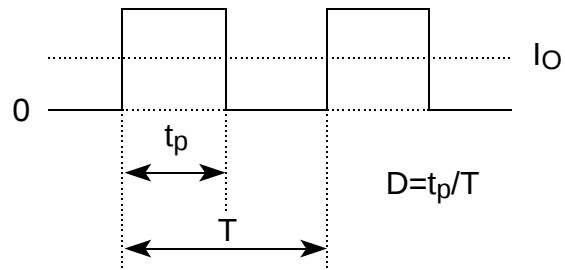


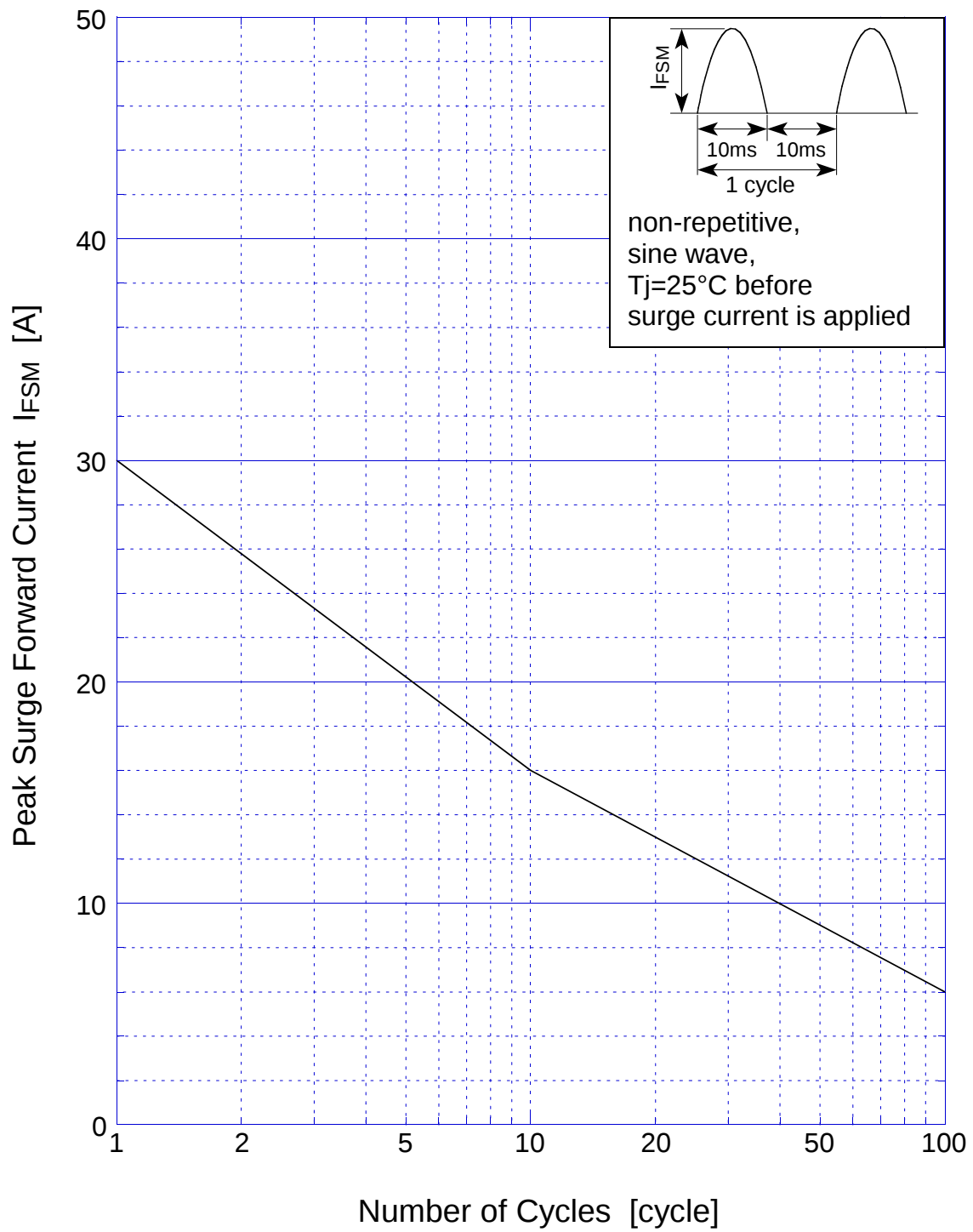
M1FH3

Forward Power Dissipation



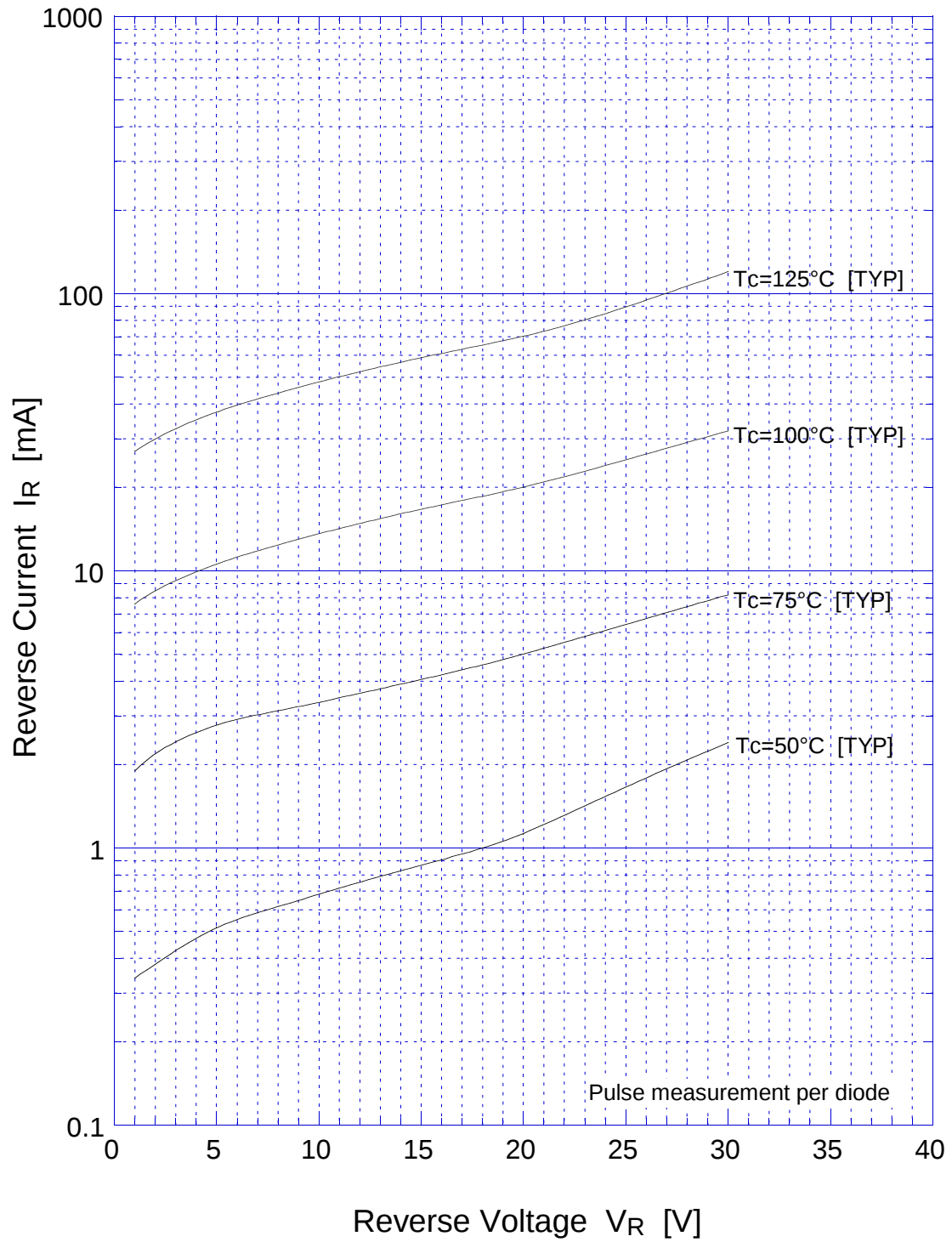
$T_j = 125^\circ\text{C}$





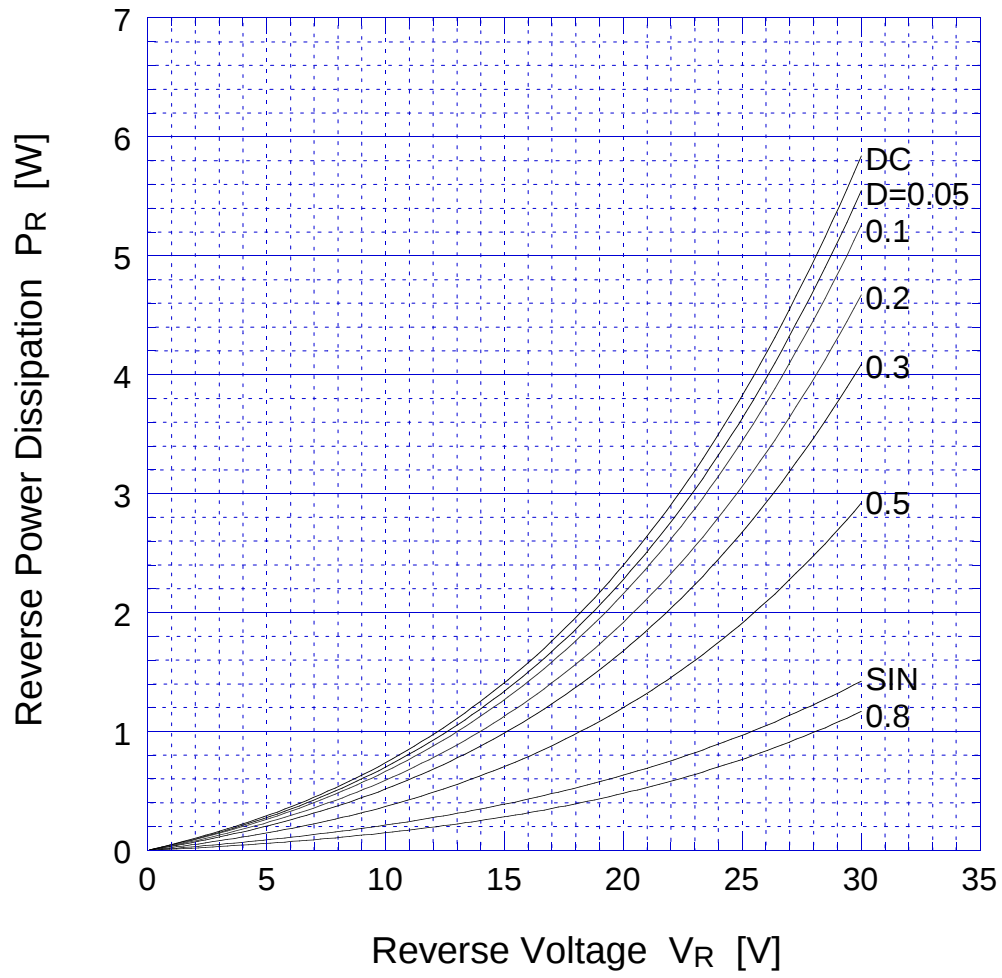
M1FH3

Reverse Current

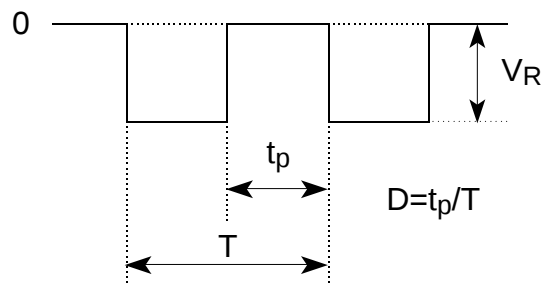


M1FH3

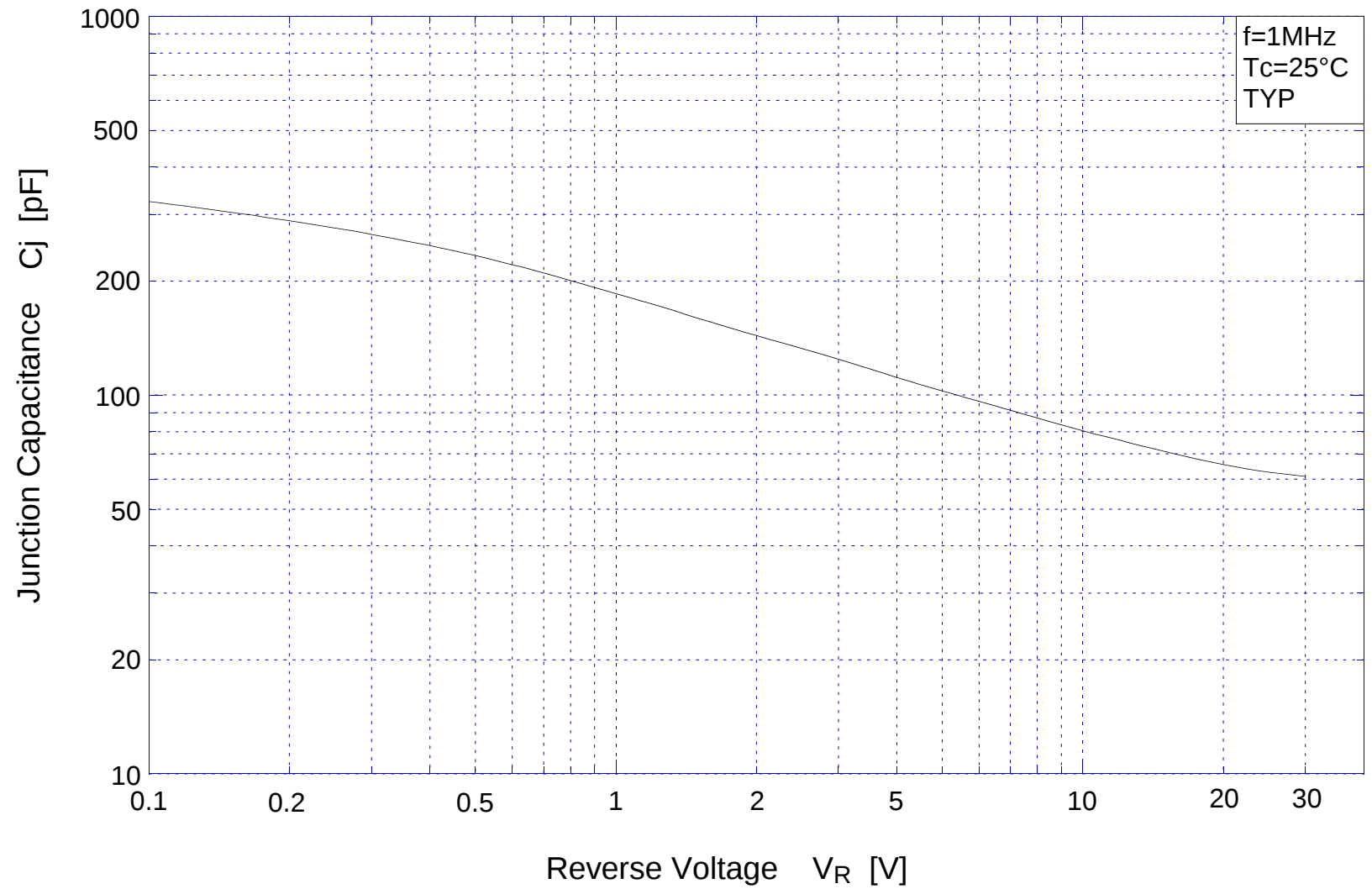
Reverse Power Dissipation



$T_j = 125^\circ\text{C}$

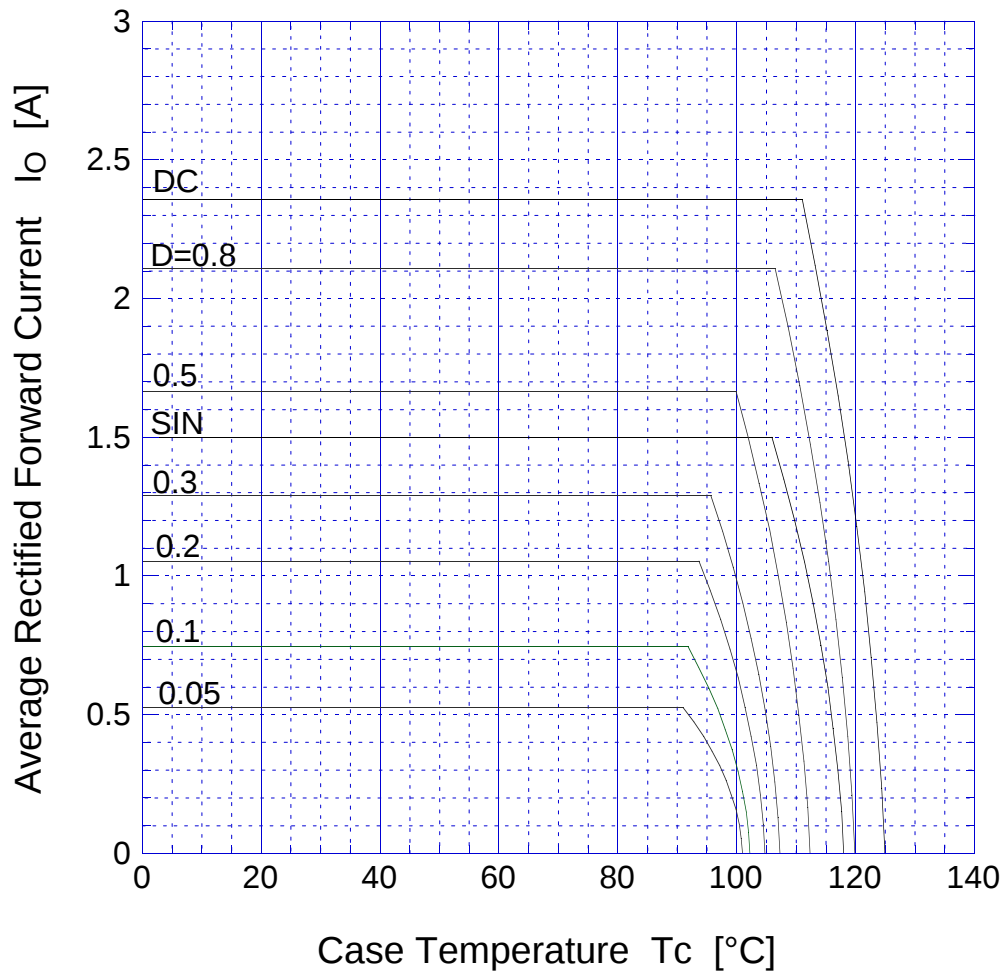


M1FH3 Junction Capacitance

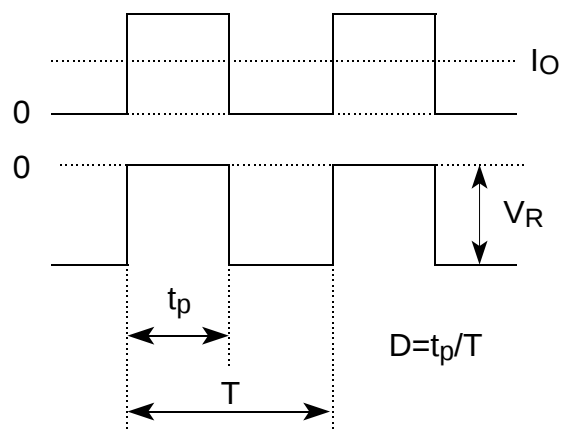


M1FH3

Derating Curve

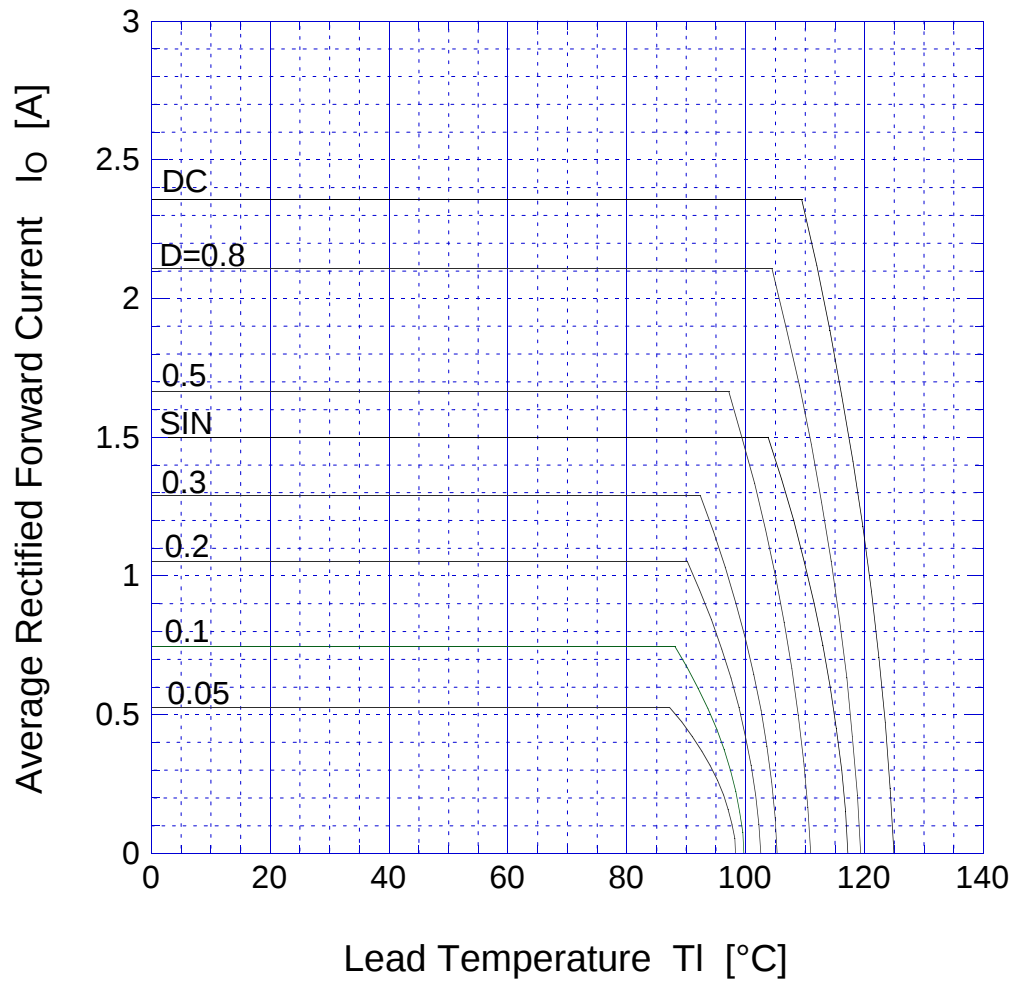


$V_R = 15V$

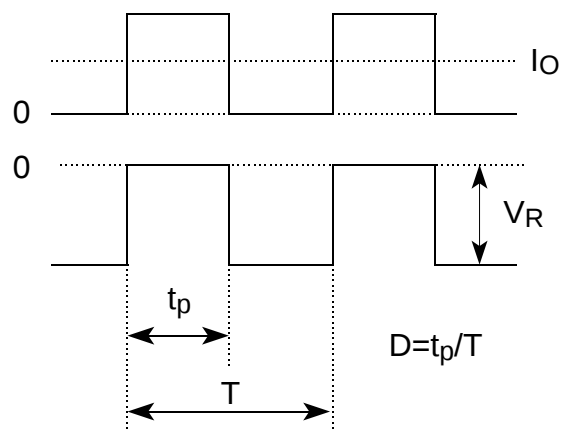


M1FH3

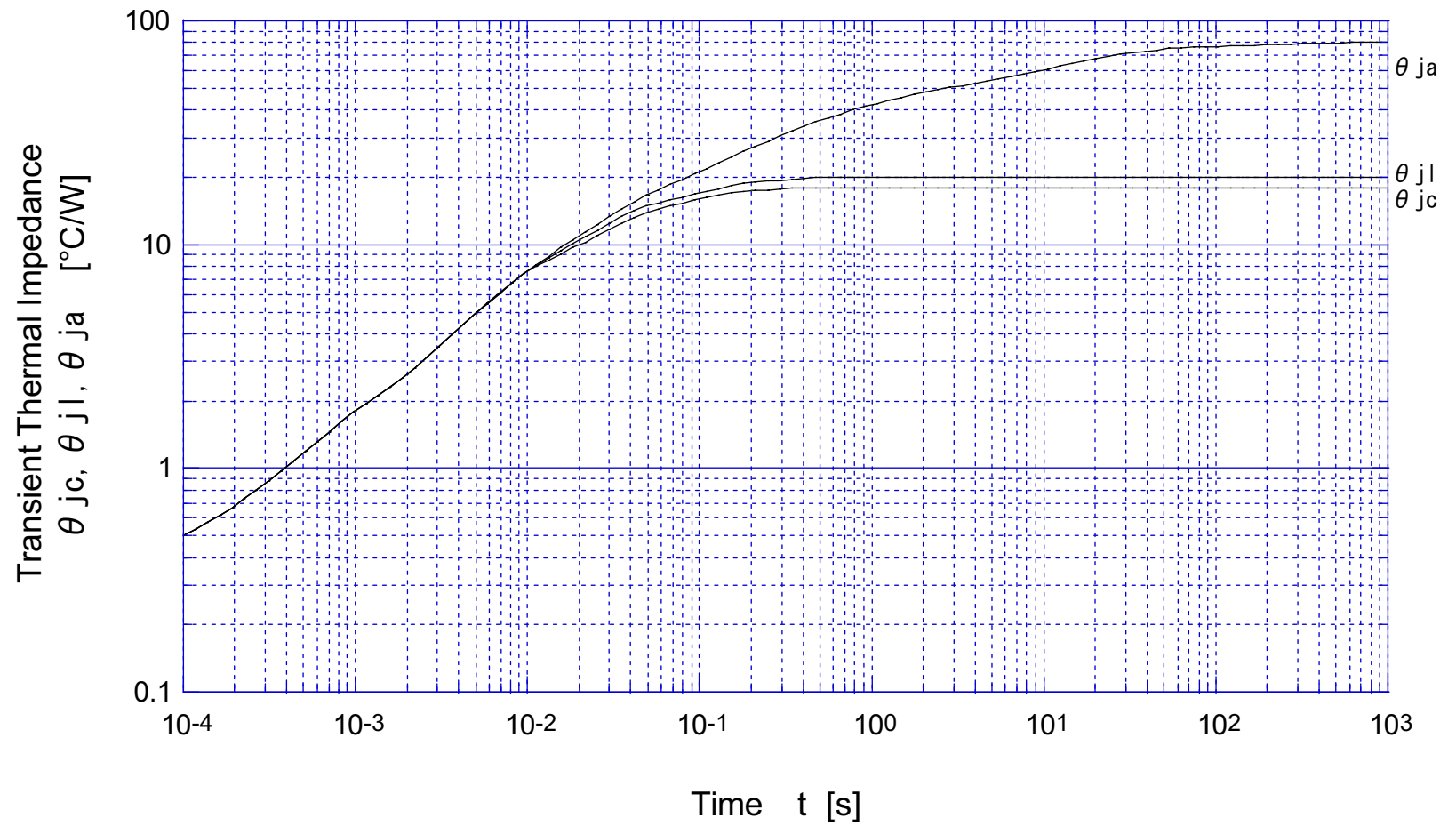
Derating Curve



$V_R = 15\text{V}$



M1FH3 Transient Thermal Impedance



M1FH3

θ_{ja} -

Conductor pattern area

