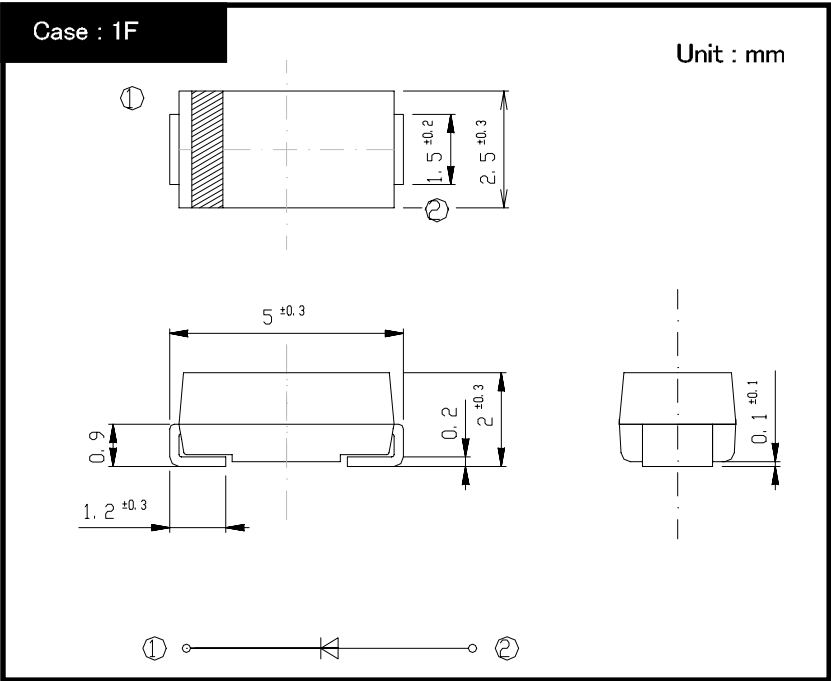


D1FH3

30V 3A

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (Tc=25°C)

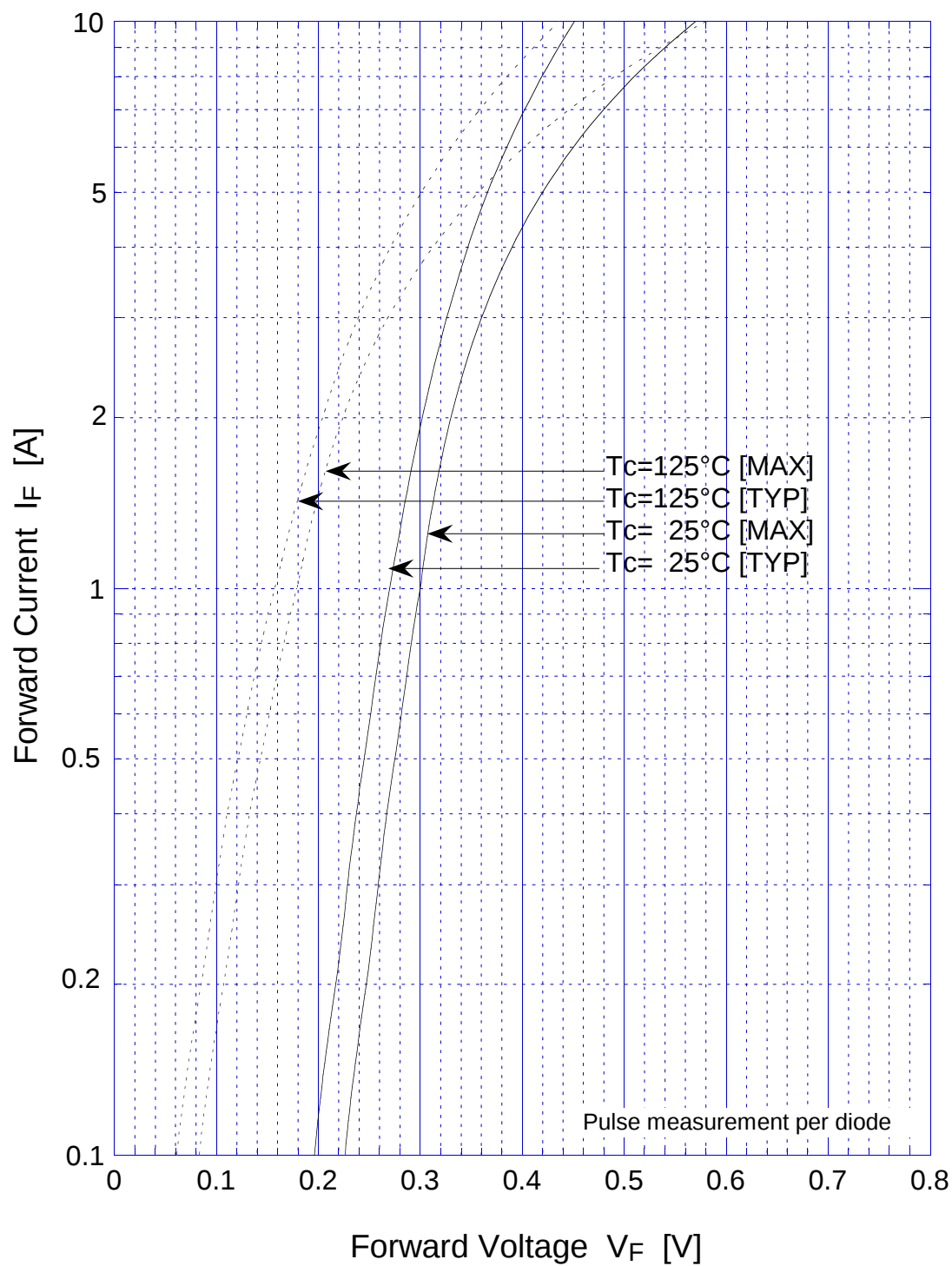
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	VRM		30	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load Tc=95°C	3.0	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A

●Electrical Characteristics Tc=25°C

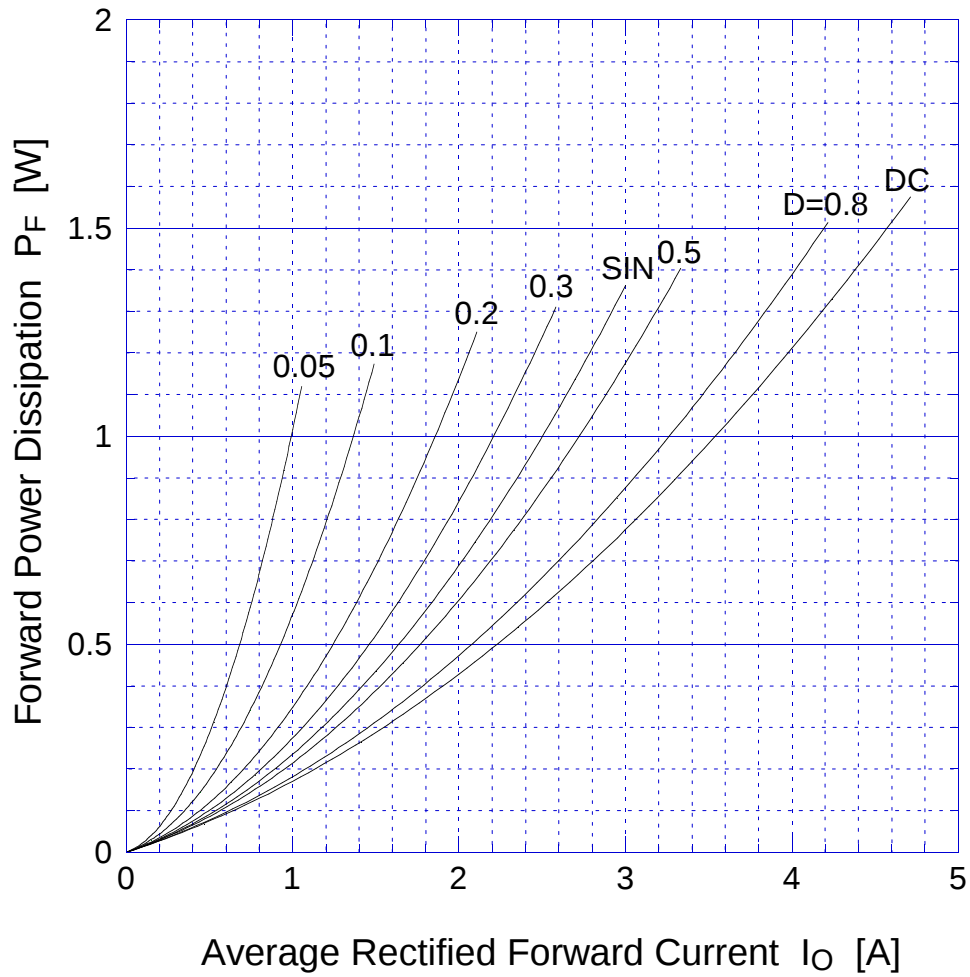
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF1	IF=1.0A, Pulse measurement	Max.0.30	V
	VF2	IF=3.0A, Pulse measurement	Max.0.36	
Reverse Current	IR	VR=VRM, Pulse measurement	Max.2.0	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ.130	pF
Thermal Resistance	θ jc	junction to case	Max.16	°C/W
	θ jl	junction to lead	Max.18	
	θ ja	junction to ambient On glass-epoxy substrate	Max.65	

D1FH3

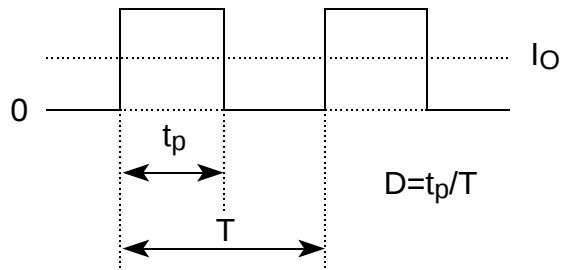
Forward Voltage



D1FH3 Forward Power Dissipation

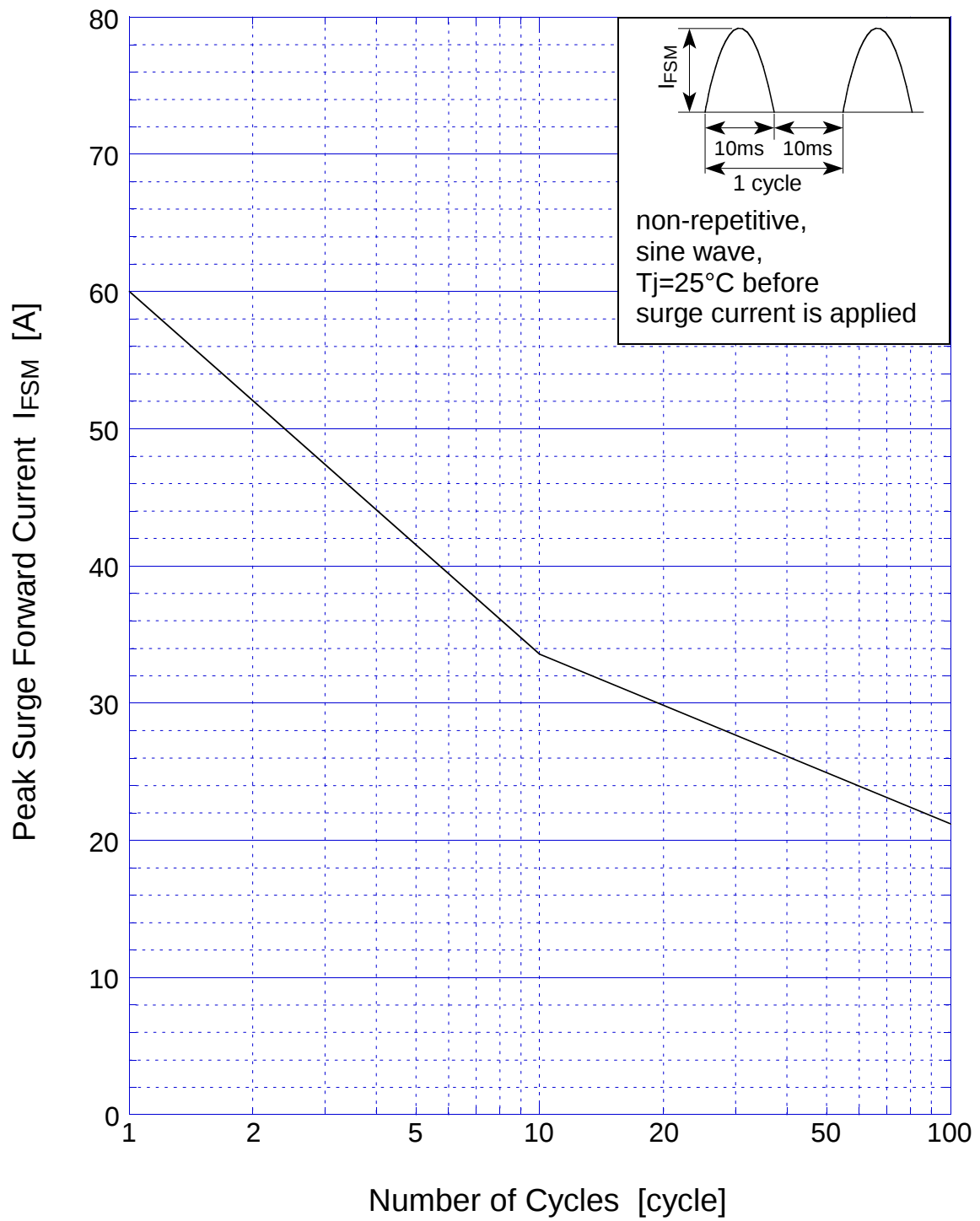


$T_j = 125^\circ\text{C}$



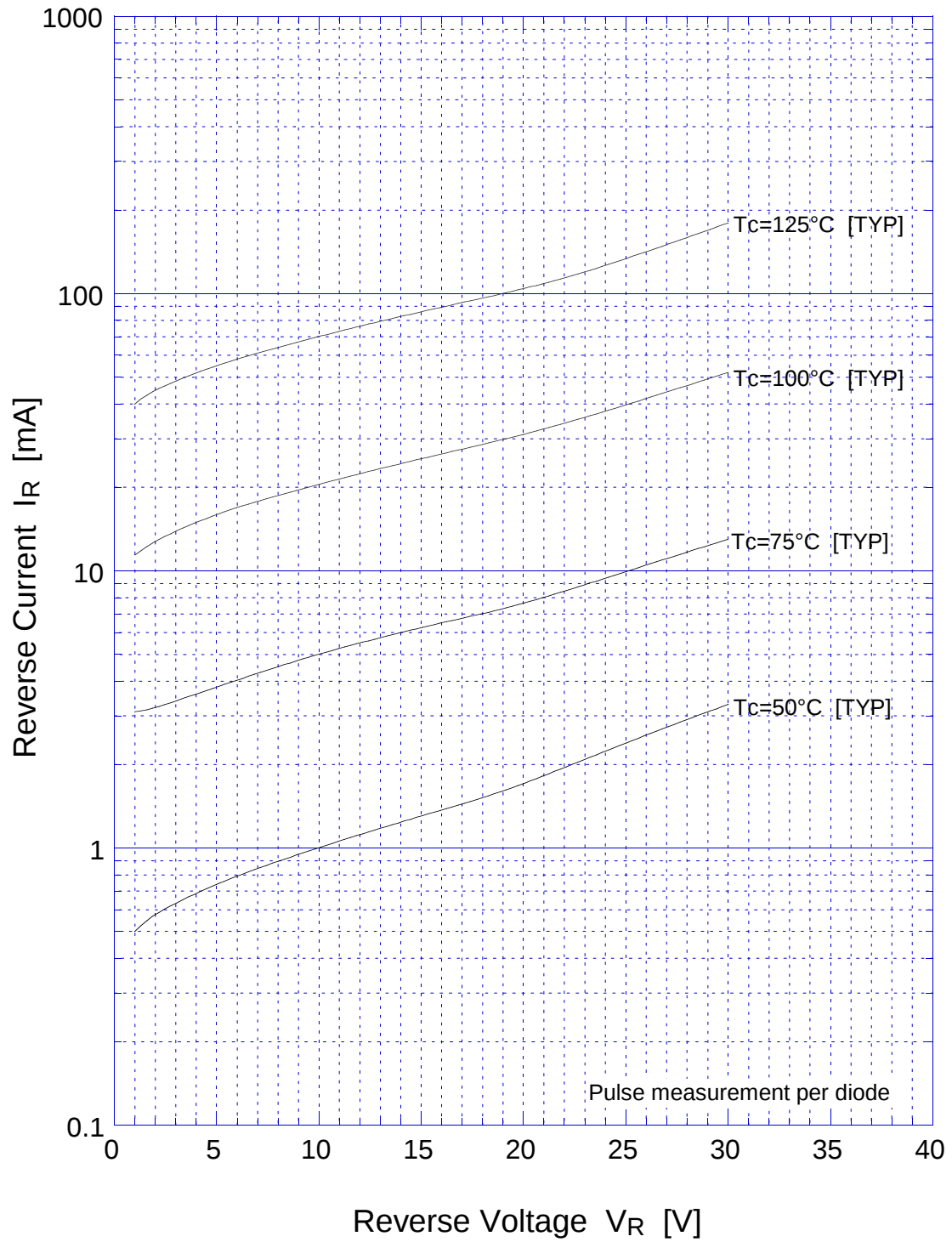
D1FH3

Peak Surge Forward Capability



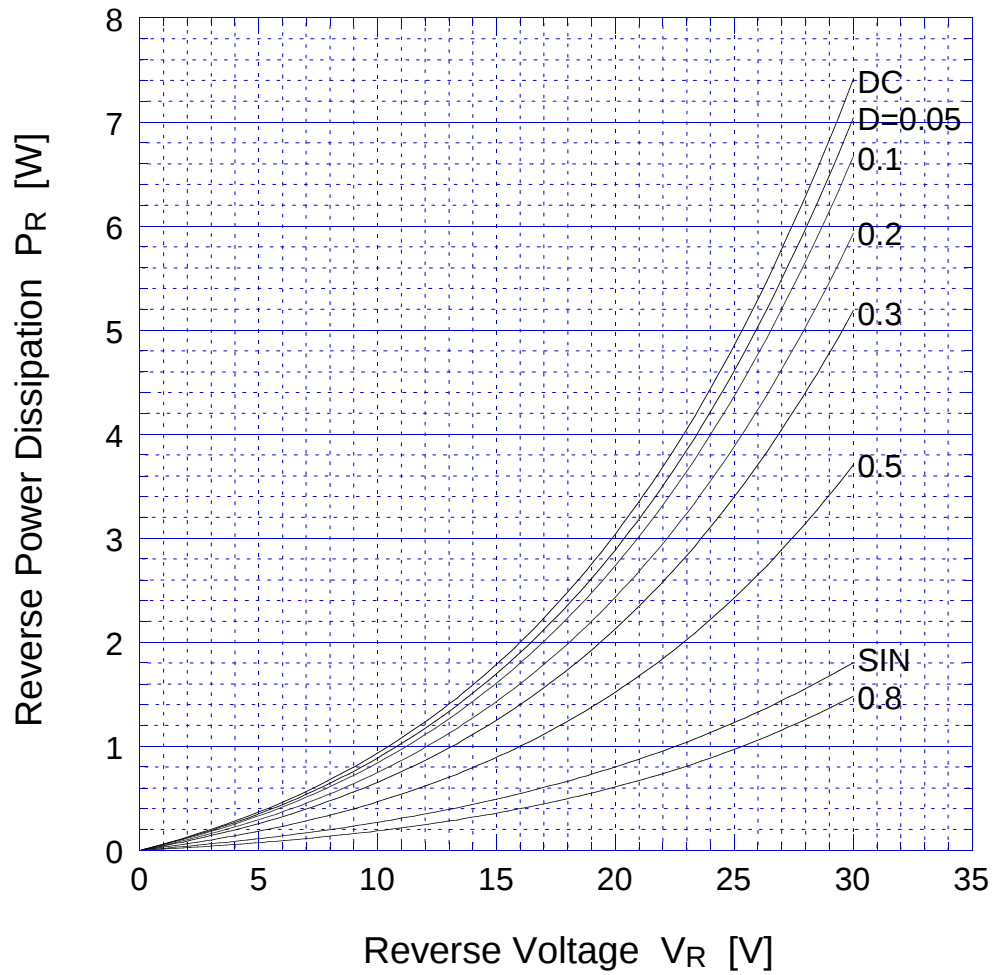
D1FH3

Reverse Current

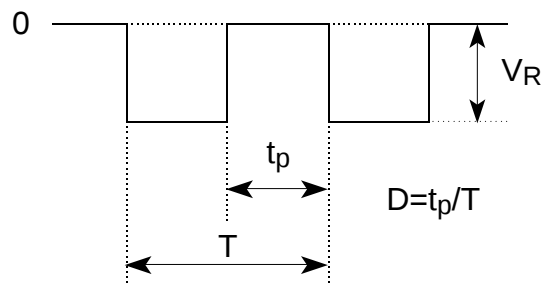


D1FH3

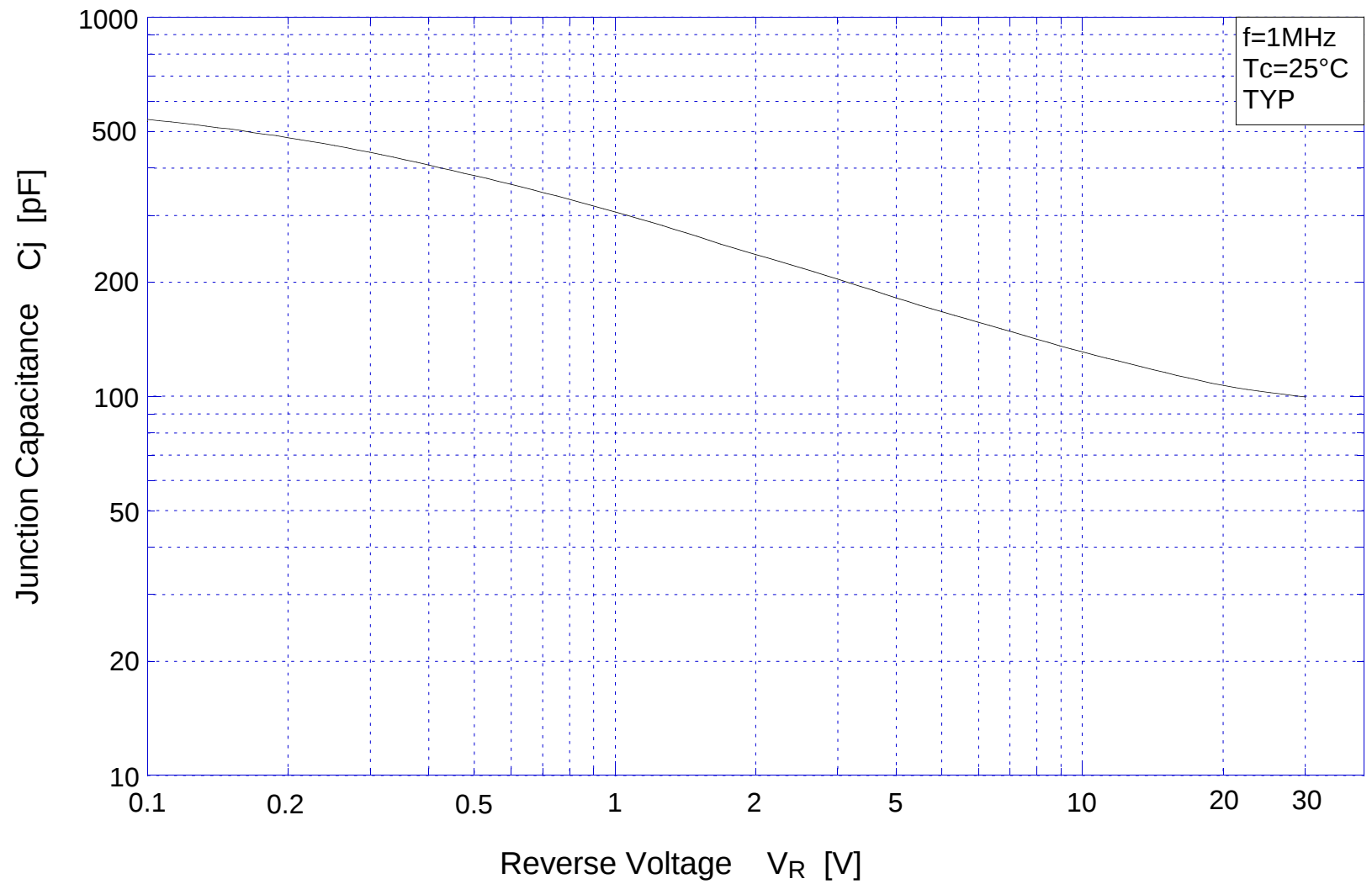
Reverse Power Dissipation



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

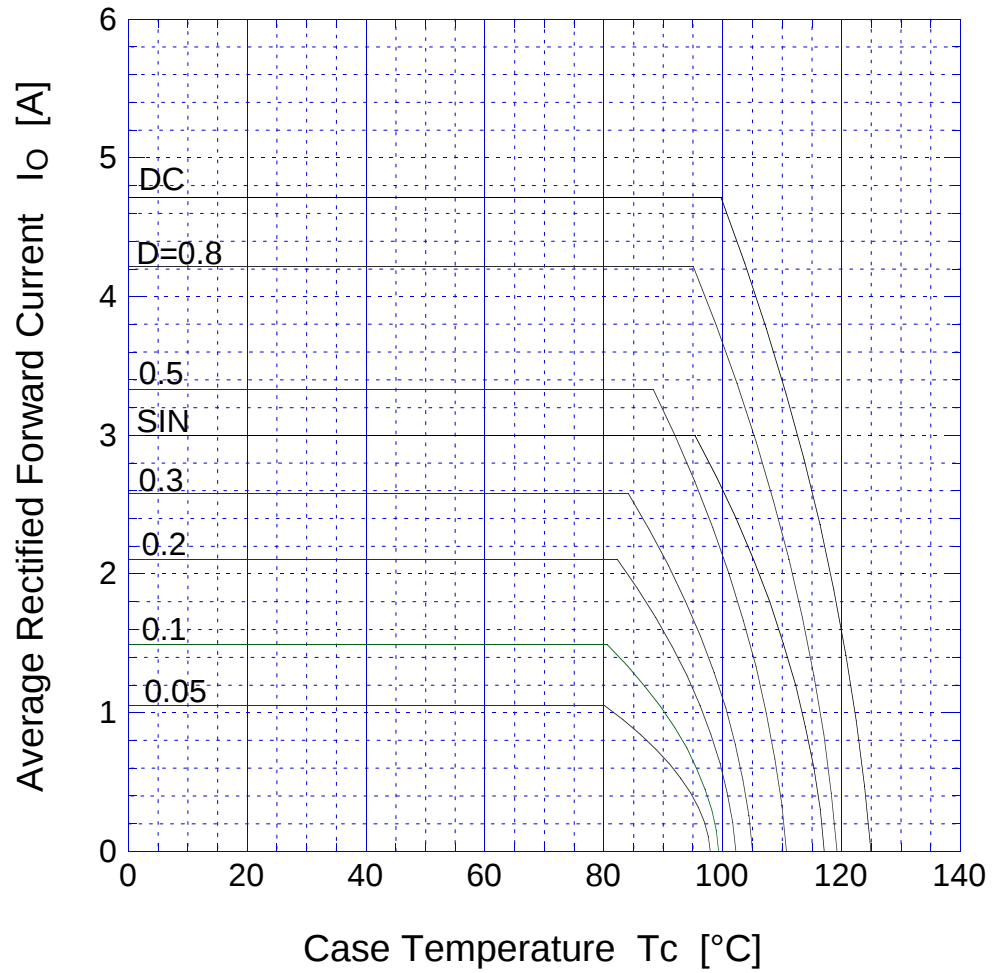


D1FH3 Junction Capacitance

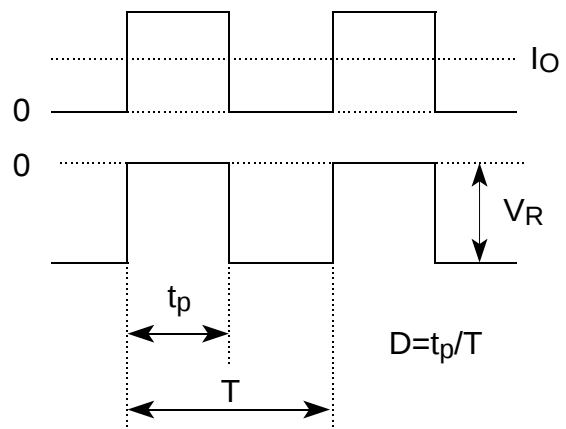


D1FH3

Derating Curve

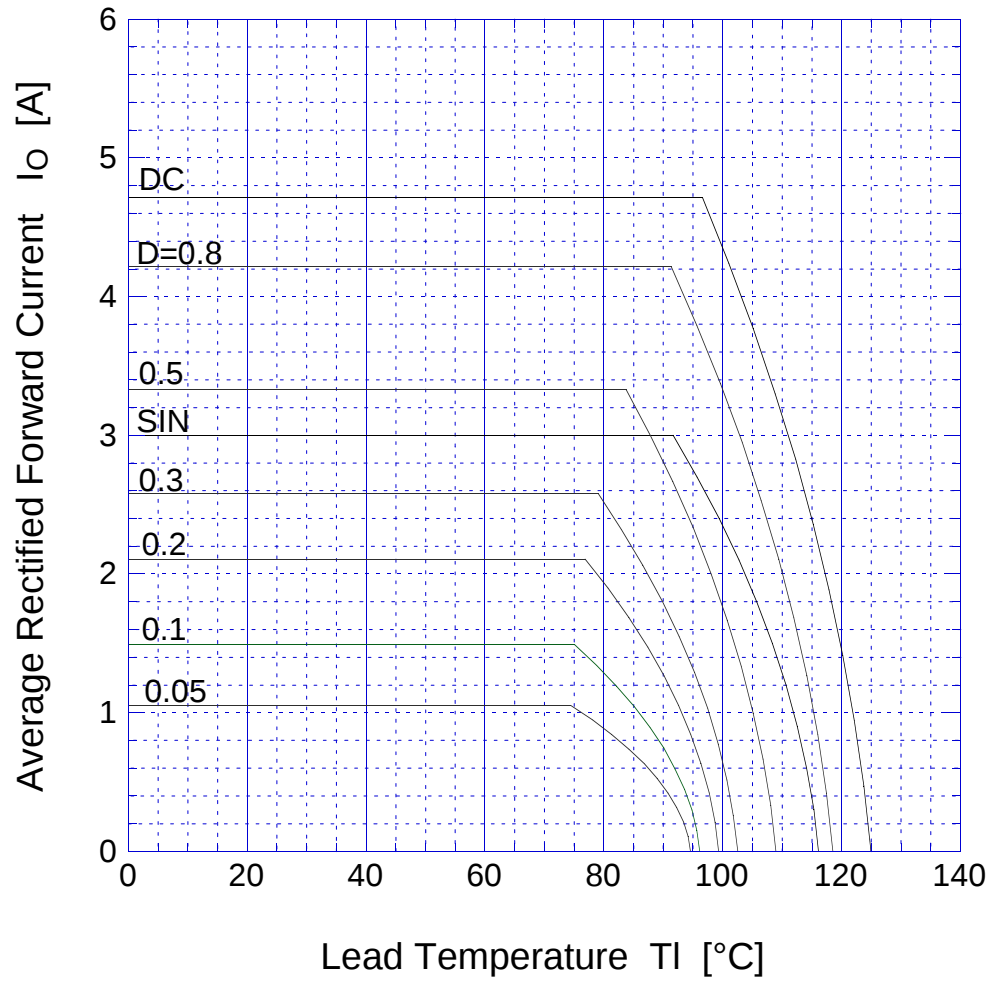


$V_R = 15V$

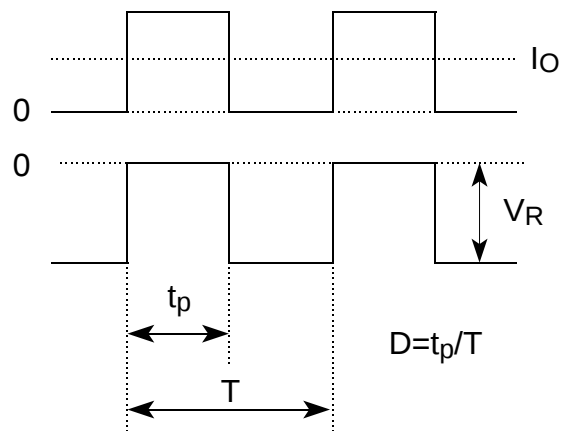


D1FH3

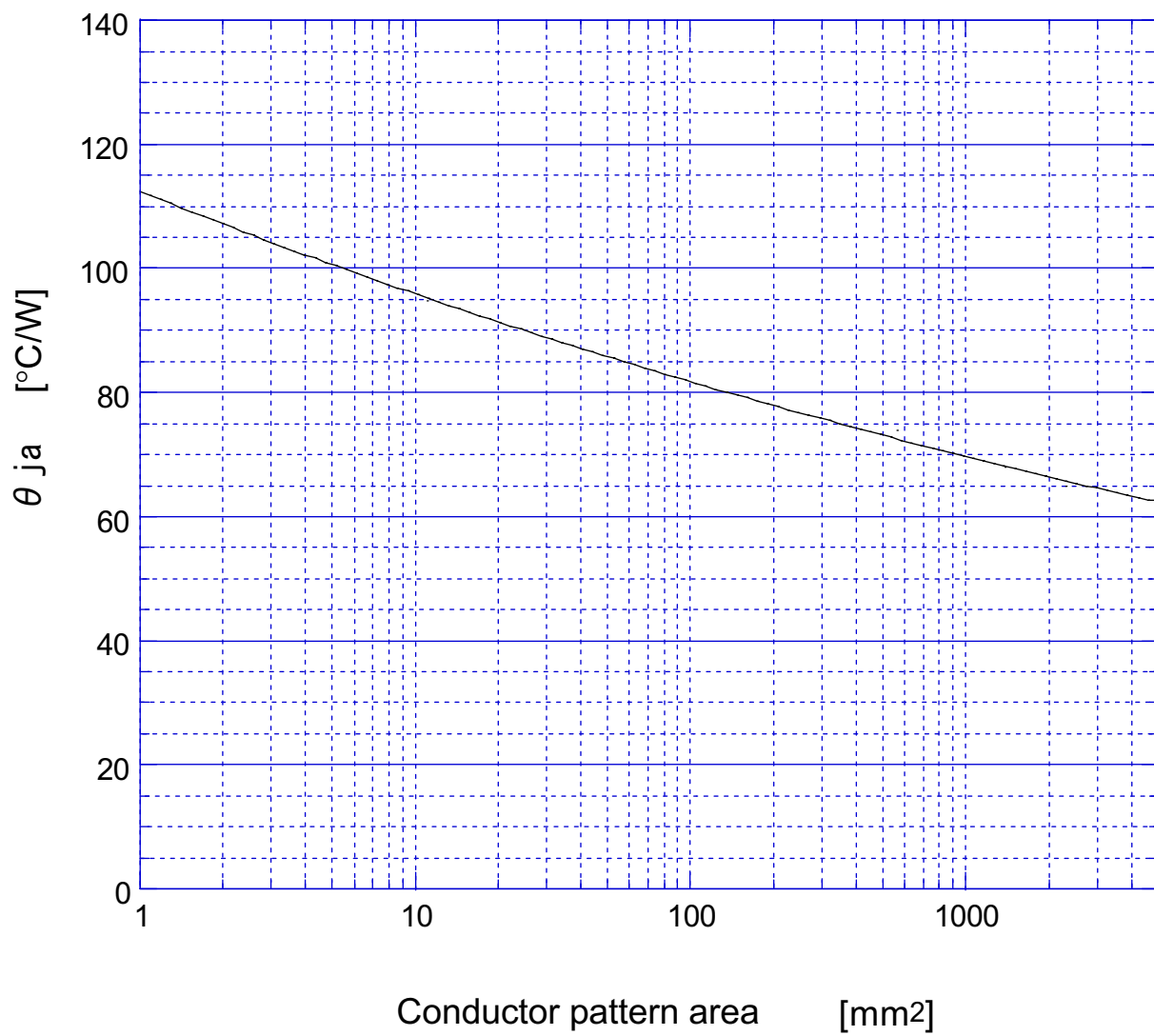
Derating Curve



$V_R = 15\text{V}$



D1FH3 θ_{ja} - Conductor pattern area



D1FH3 Transient Thermal Impedance

