

SHINDENGEN

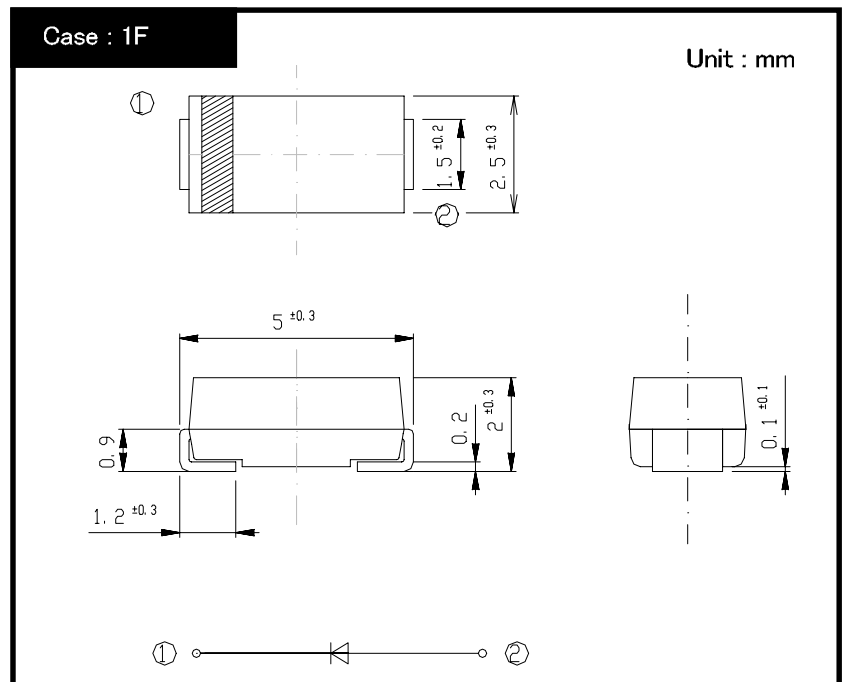
Schottky Rectifiers (SBD)

Single

D1FH3

30V 3A

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings (Tc=25°C)

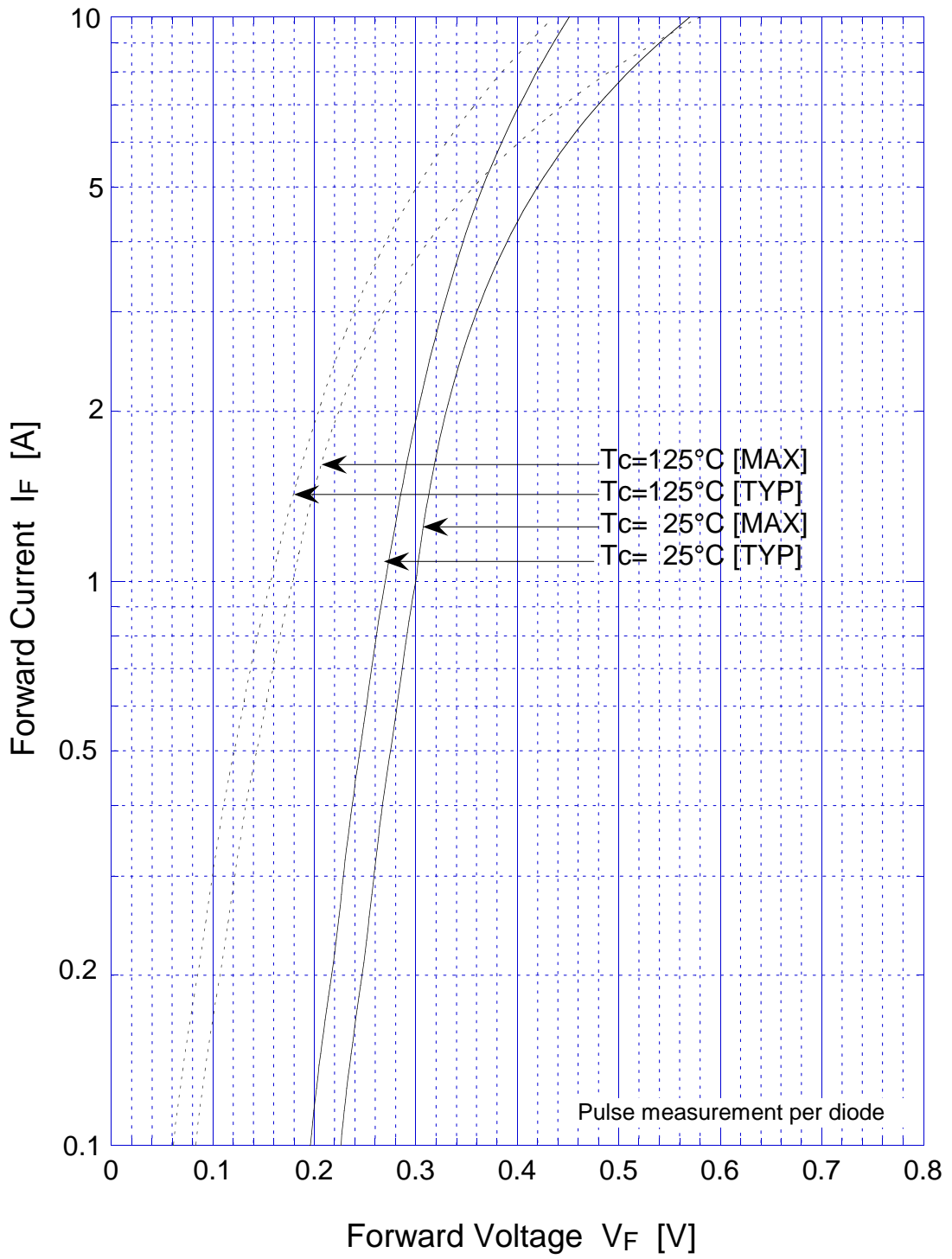
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	V _{RM}		30	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load Tc=95°C	3.0	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle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

● Electrical Characteristics Tc=25°C

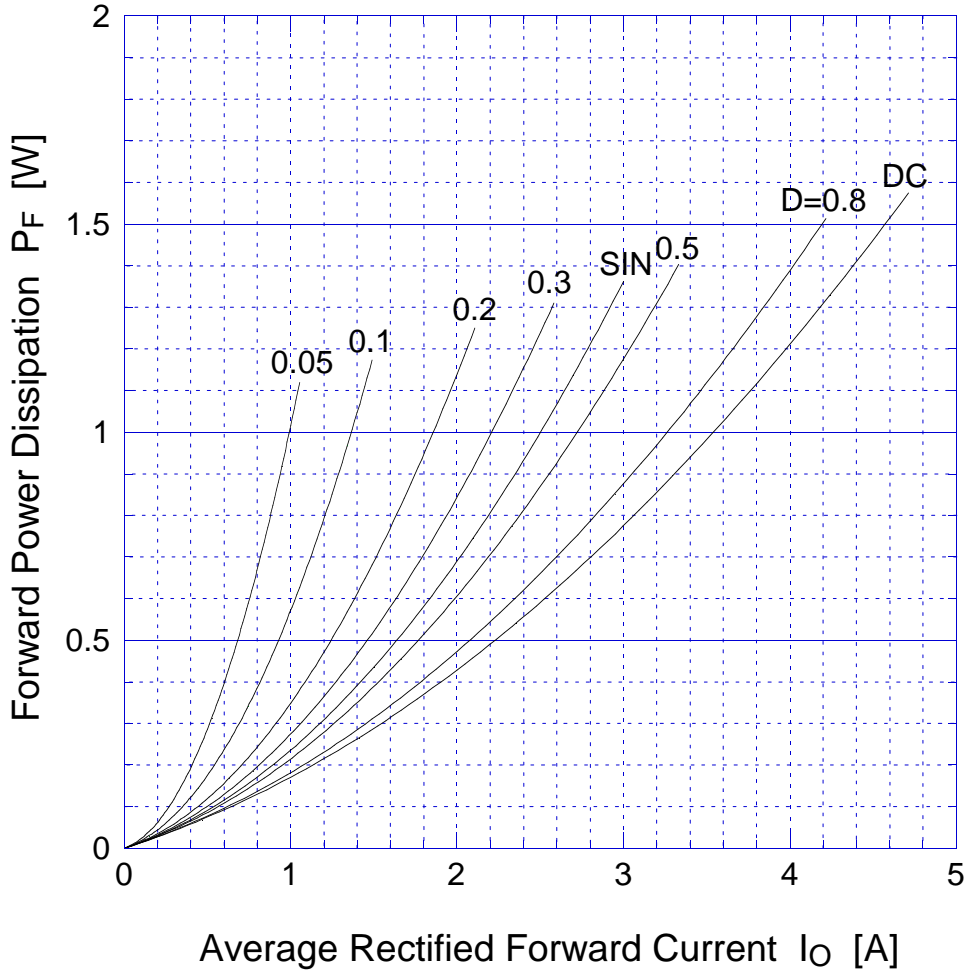
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _{F1}	I _F =1.0A, Pulse measurement	Max.0.30	V
	V _{F2}	I _F =3.0A, Pulse measurement	Max.0.36	
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.2.0	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.130	pF
Thermal Resistance	θ _{jc}	junction 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

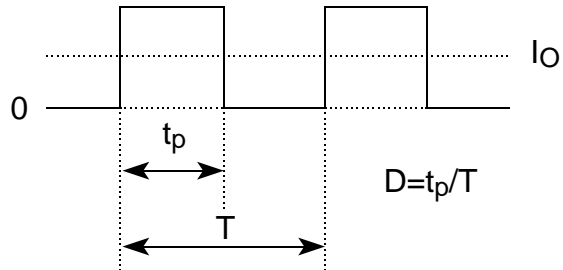
Forward Voltage



D1FH3 Forward Power Dissipation

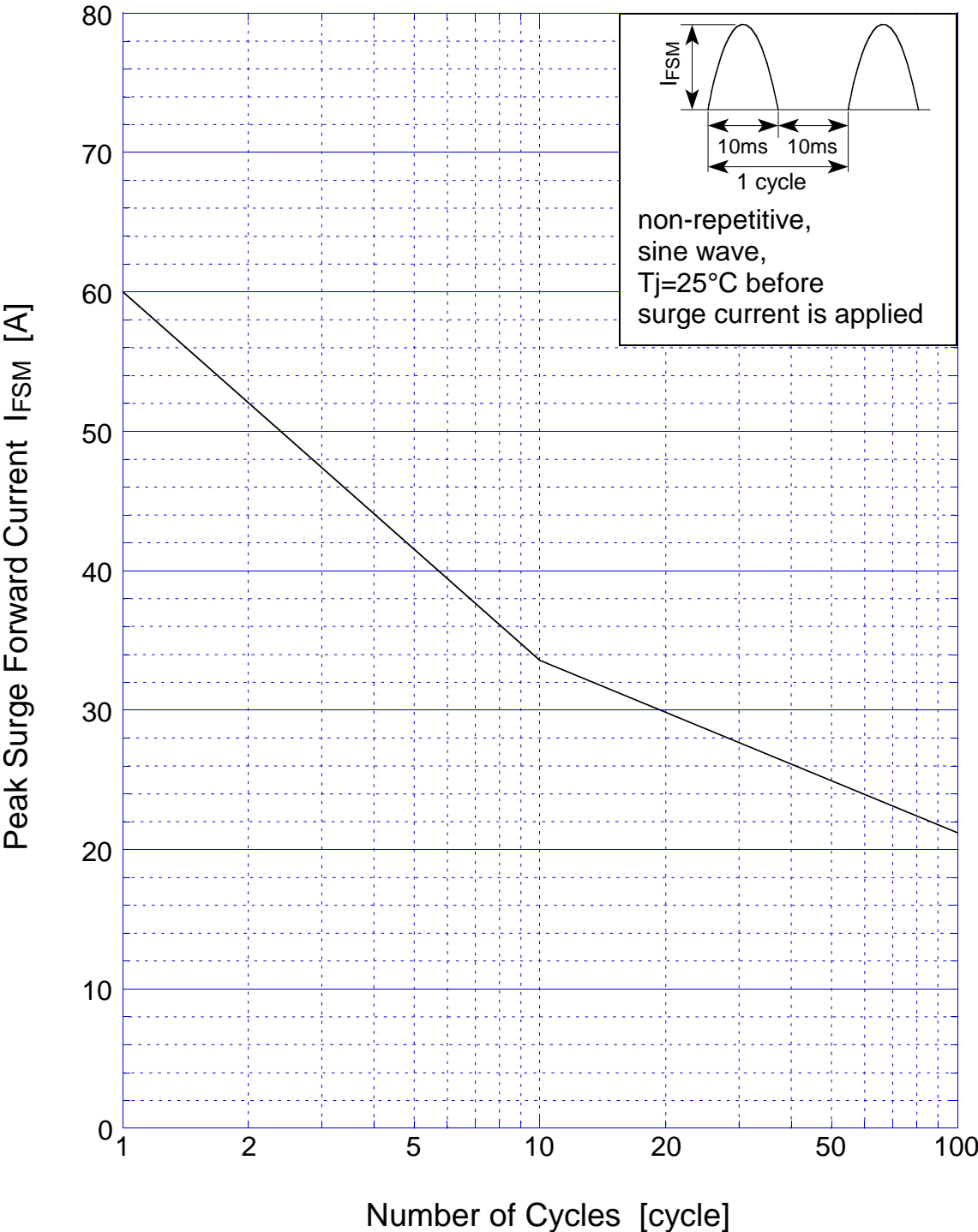


$T_j = 125^\circ\text{C}$



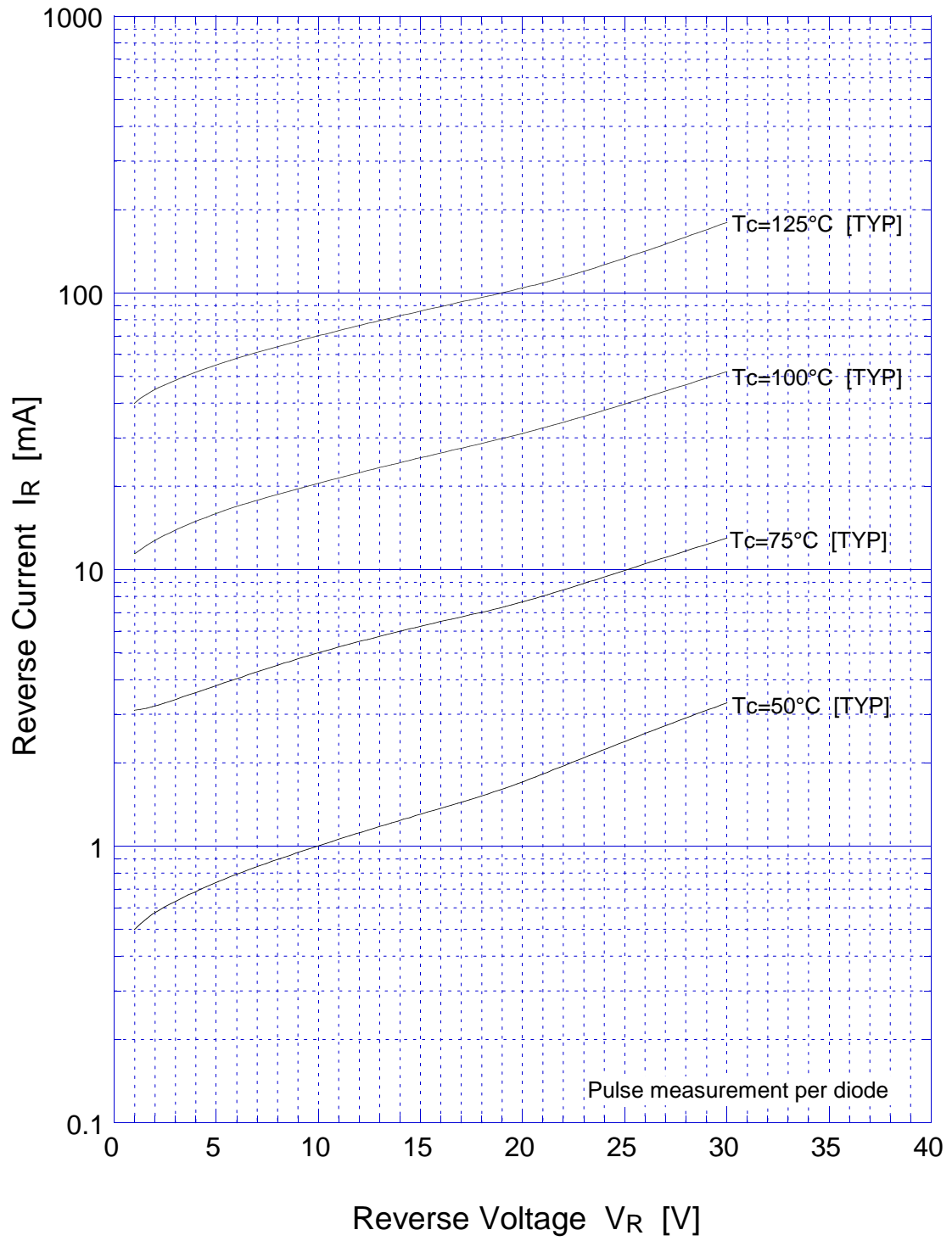
D1FH3

Peak Surge Forward Capability



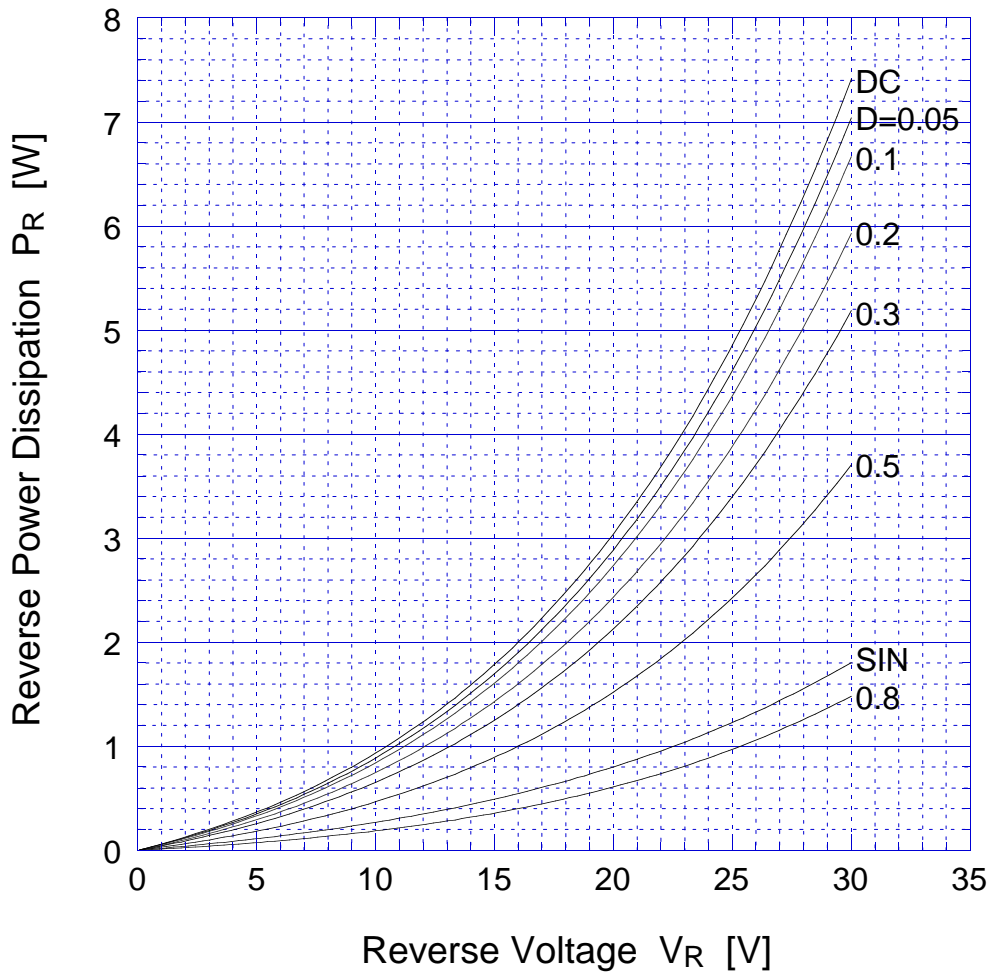
D1FH3

Reverse Current

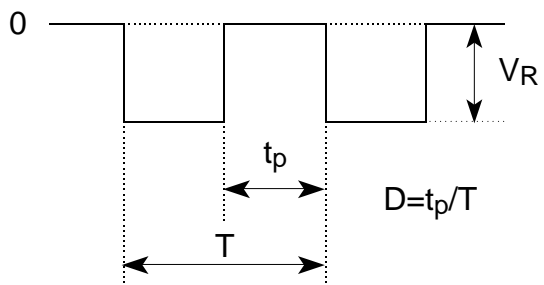


D1FH3

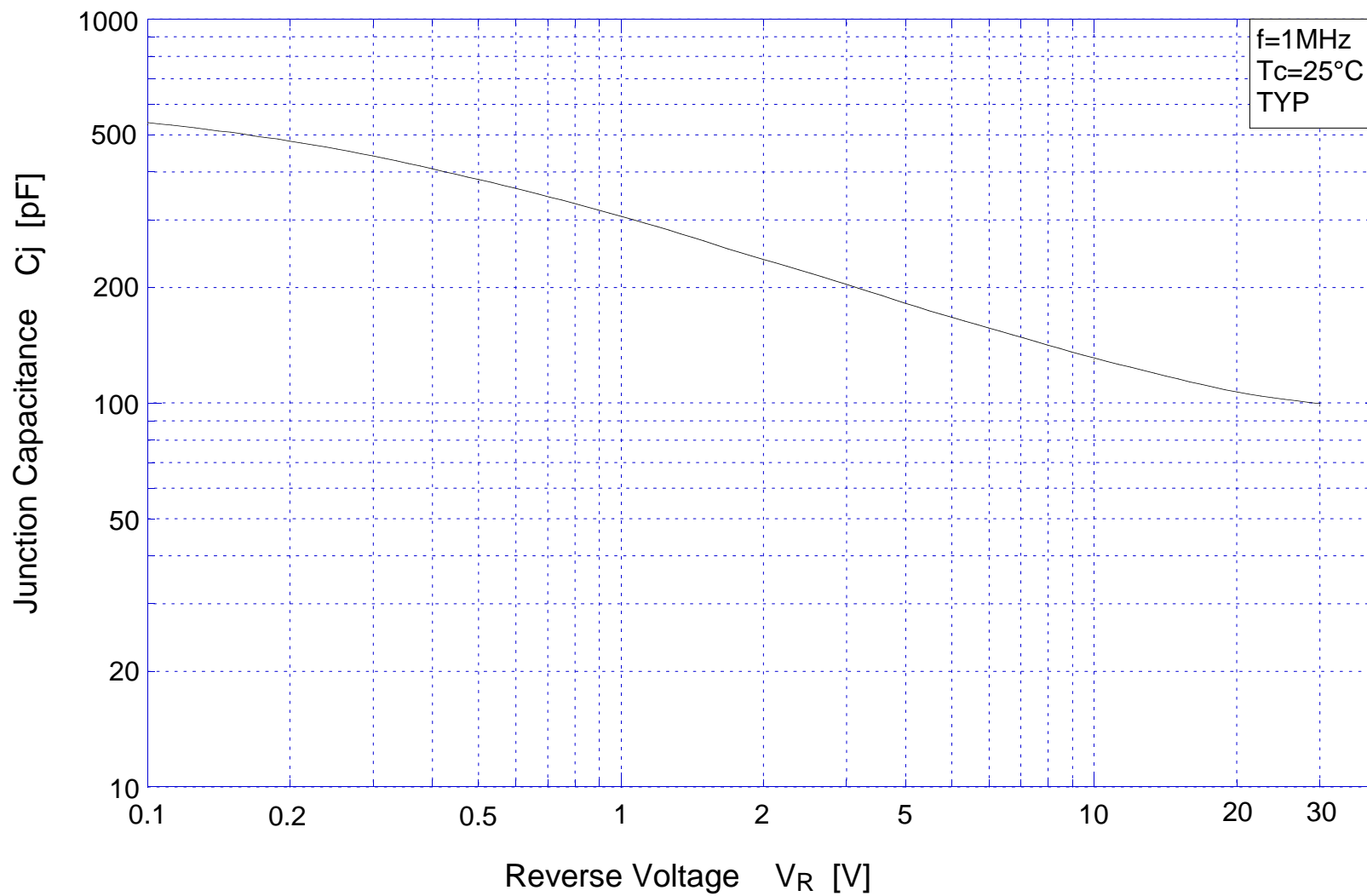
Reverse Power Dissipation



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

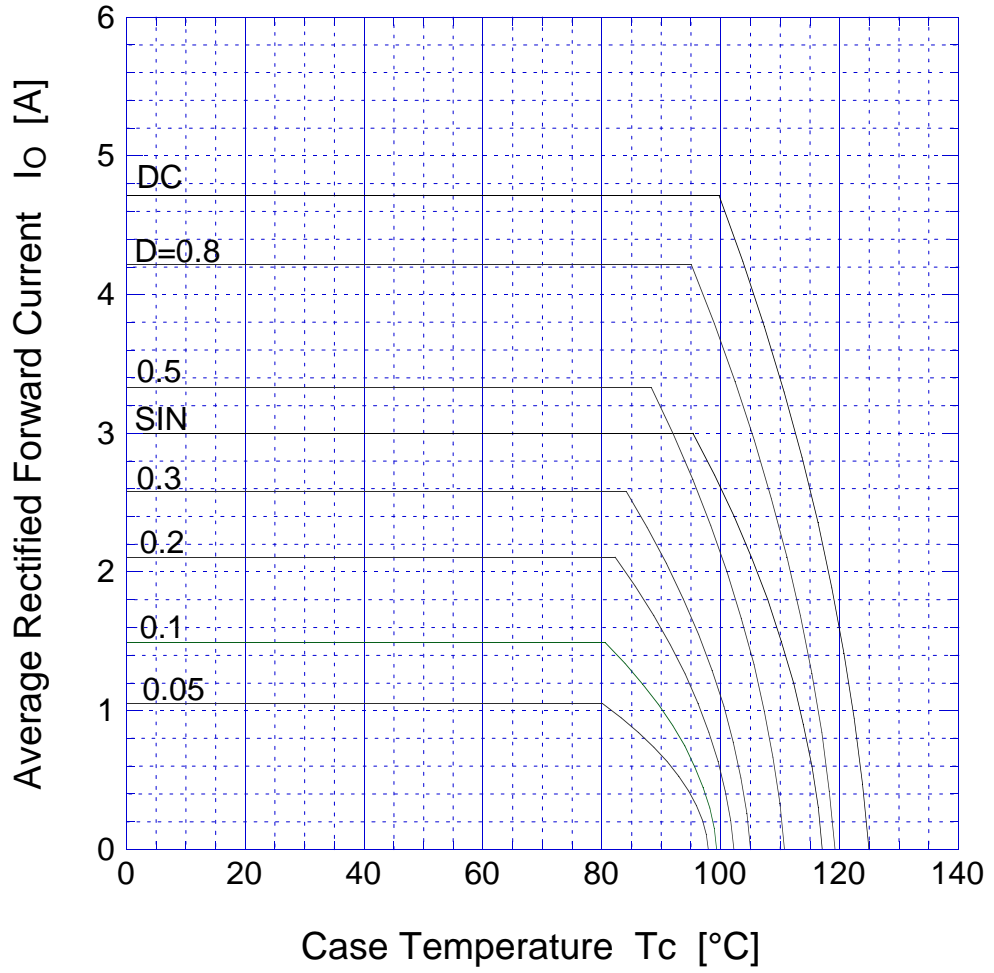


D1FH3 Junction Capacitance

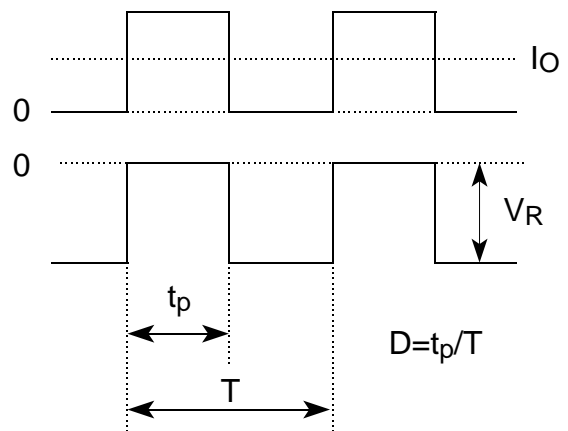


D1FH3

Derating Curve

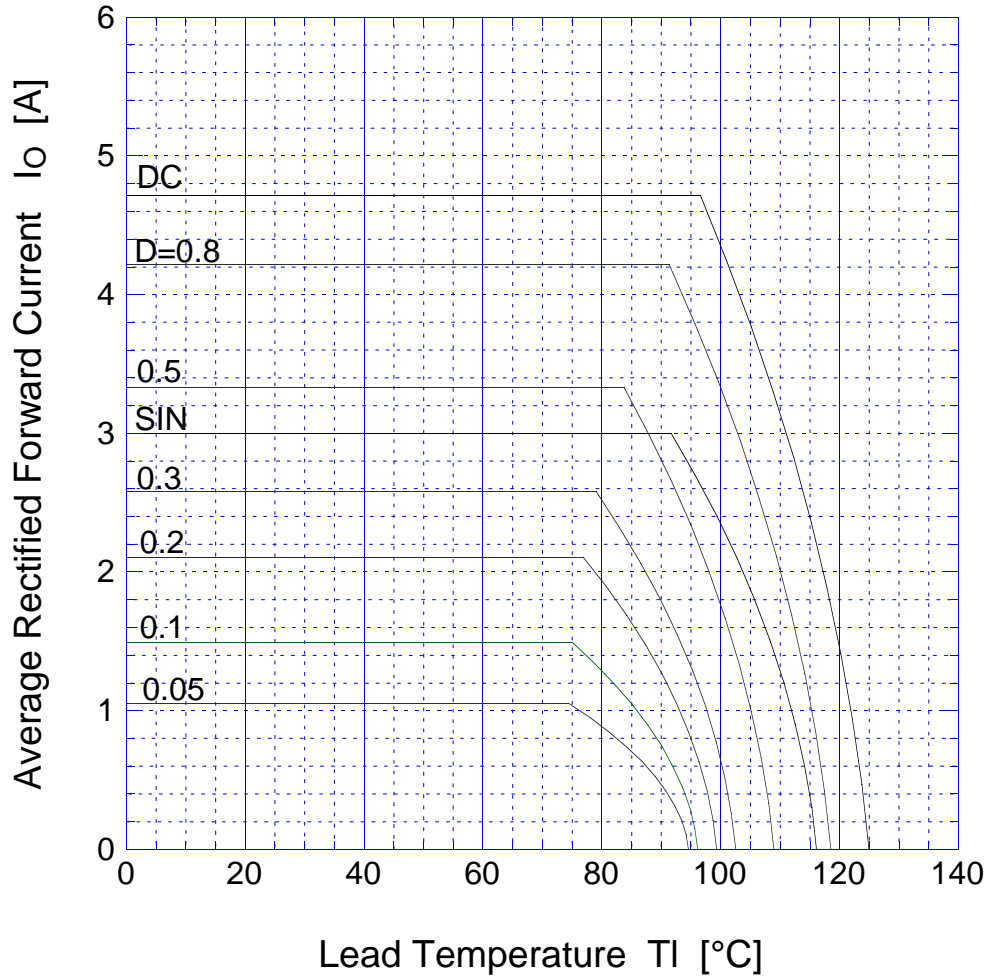


$V_R = 15V$

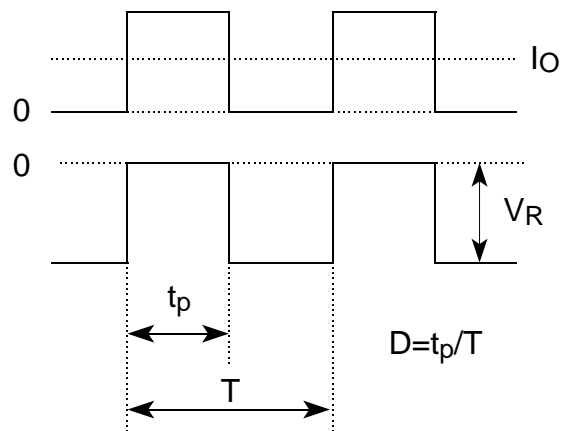


D1FH3

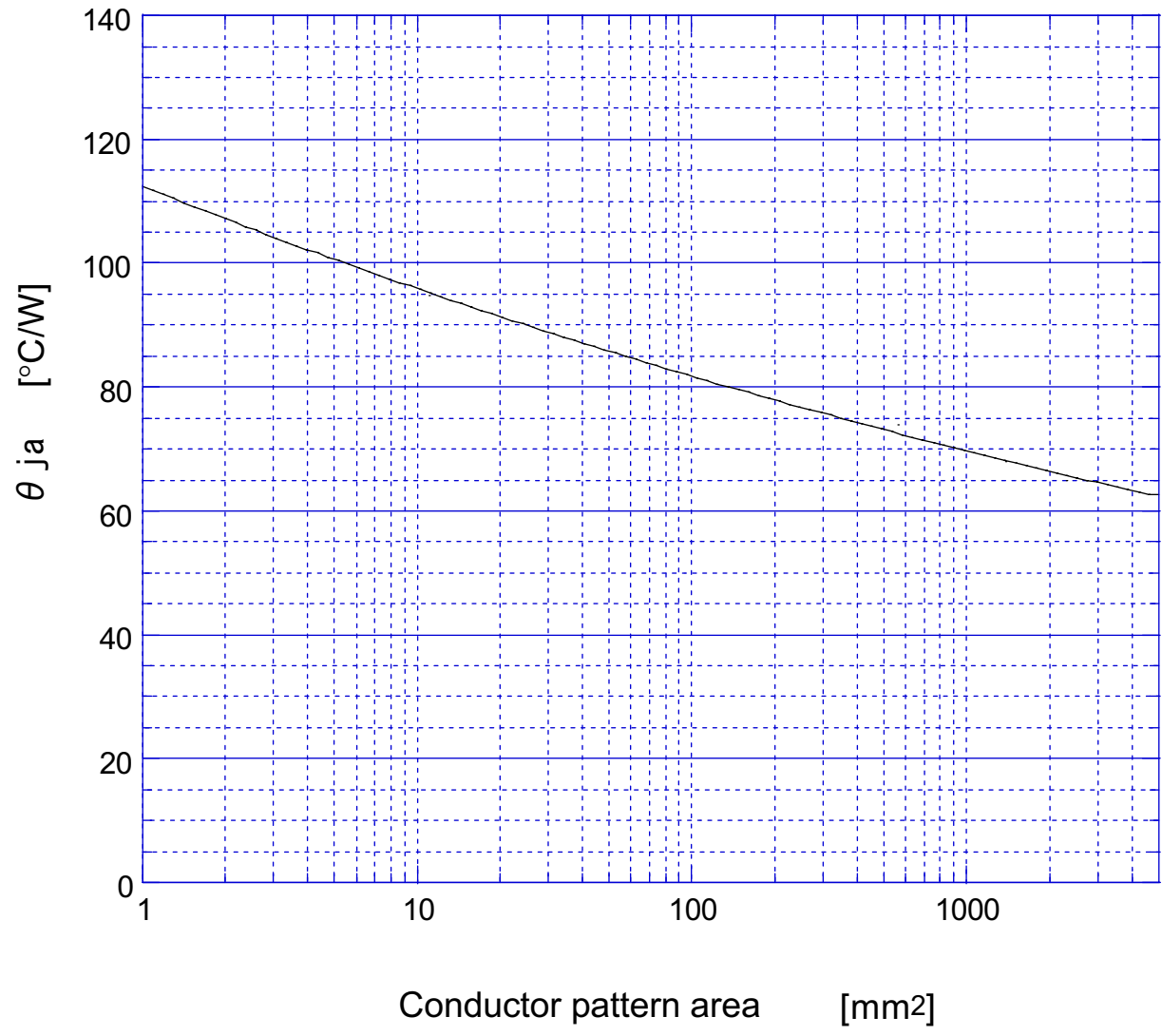
Derating Curve



$V_R = 15V$



D1FH3 θ_{ja} - Conductor pattern area



D1FH3 Transient Thermal Impedance

