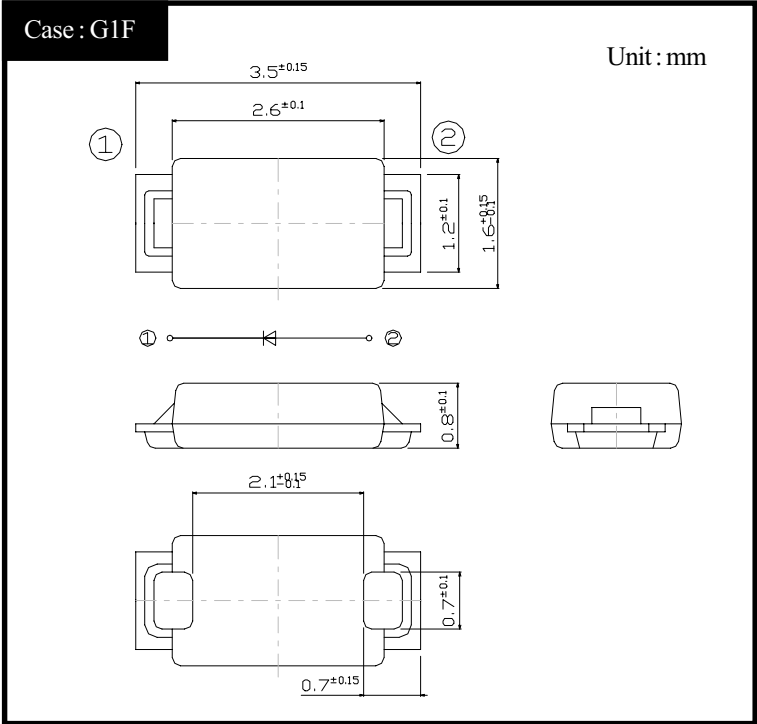


DG1H3A

30V 1.5A

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (Tl=25°C unless otherwise specified)

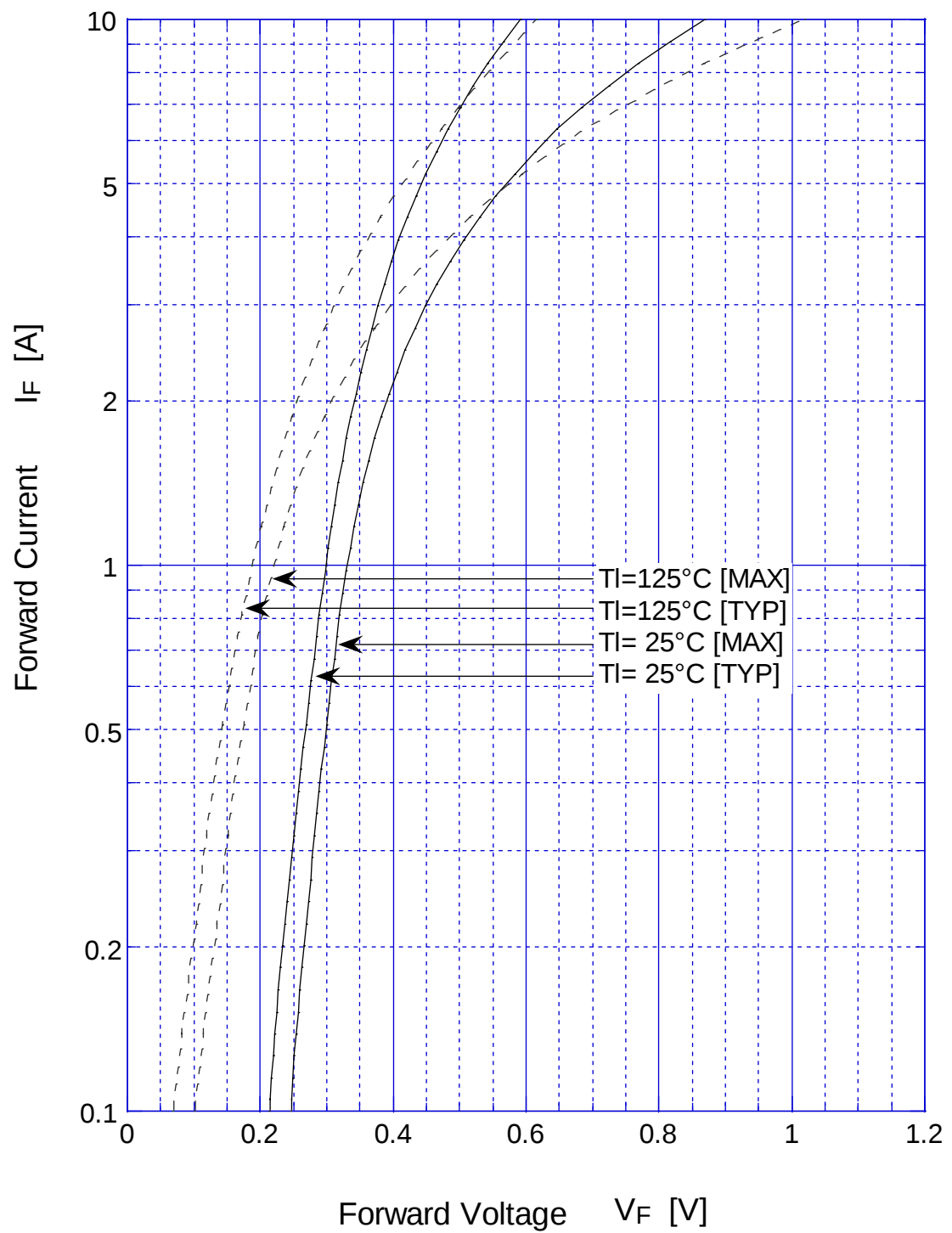
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 to 125	°C
Operating Junction Temperature	Tj		125	°C
Maximum Reverse Voltage	VRM		30	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Ta = 28°C, *1	0.85	A
	Io	50Hz sine wave, R-load, Tl = 107°C, *3	1.5	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A

Electrical Characteristics (Tl=25°C unless otherwise specified)

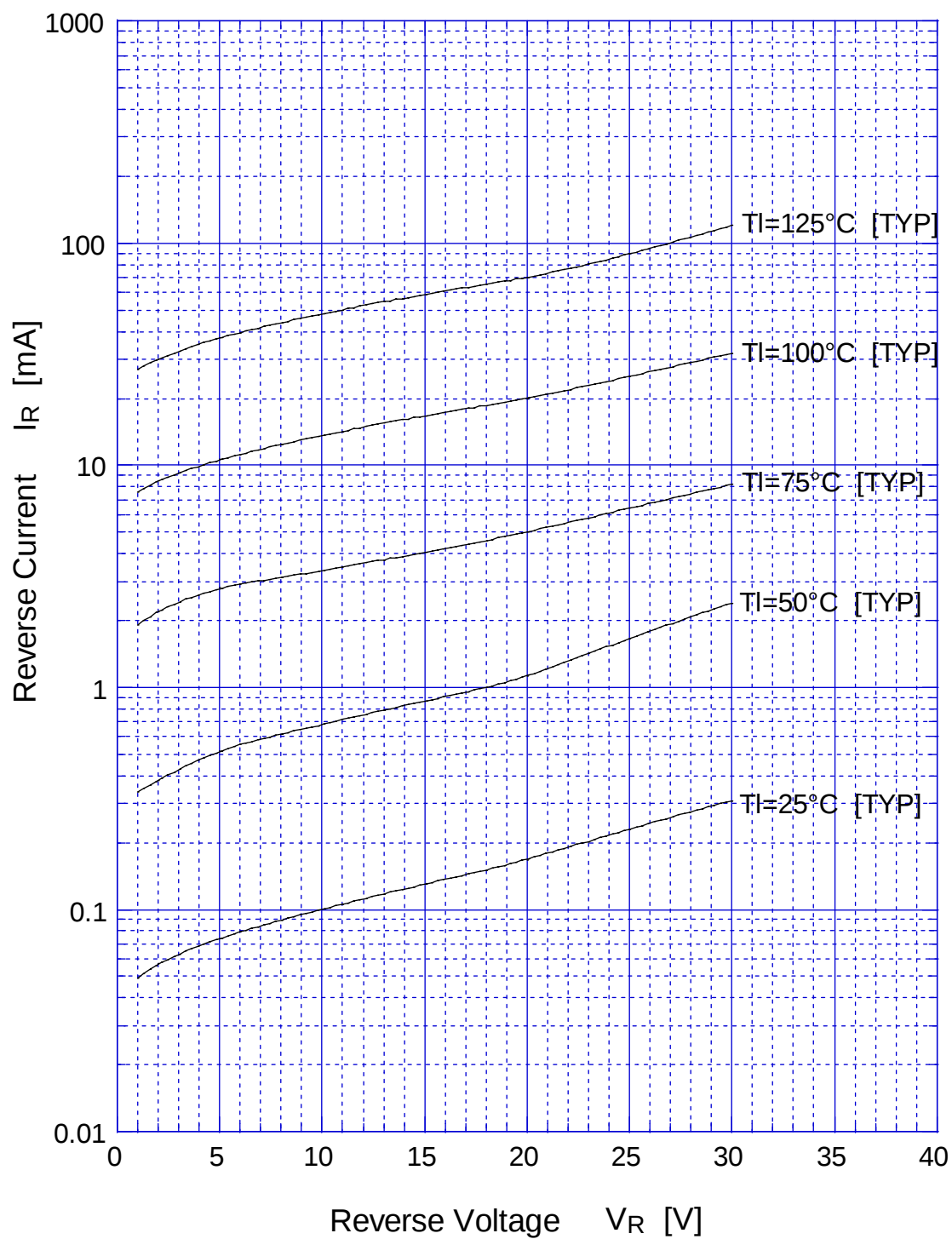
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=0.5A, Pulse measurement	Max 0.30	V
	VF	IF=1.5A, Pulse measurement	Max 0.36	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max 1	mA
Junction Capacitance	Cj	f=1MHz, VR=10V	Typ 70	pF
Thermal Resistance	θja	junction to ambient, *1	Max 210	°C/W
	θja	junction to ambient, *2	Max 120	
	θja	junction to ambient, *3	Max 70	
	θjl	junction to lead, *3	Max 20	

- *1 Measured on the 1×1 inch phenol substrate (pattern area : 32.6mm²)
*2 Measured on the 1×1 inch phenol substrate (pattern area : 160mm²)
*3 Measured on the 2×2 inch alumina substrate (pattern area : 2100mm²)

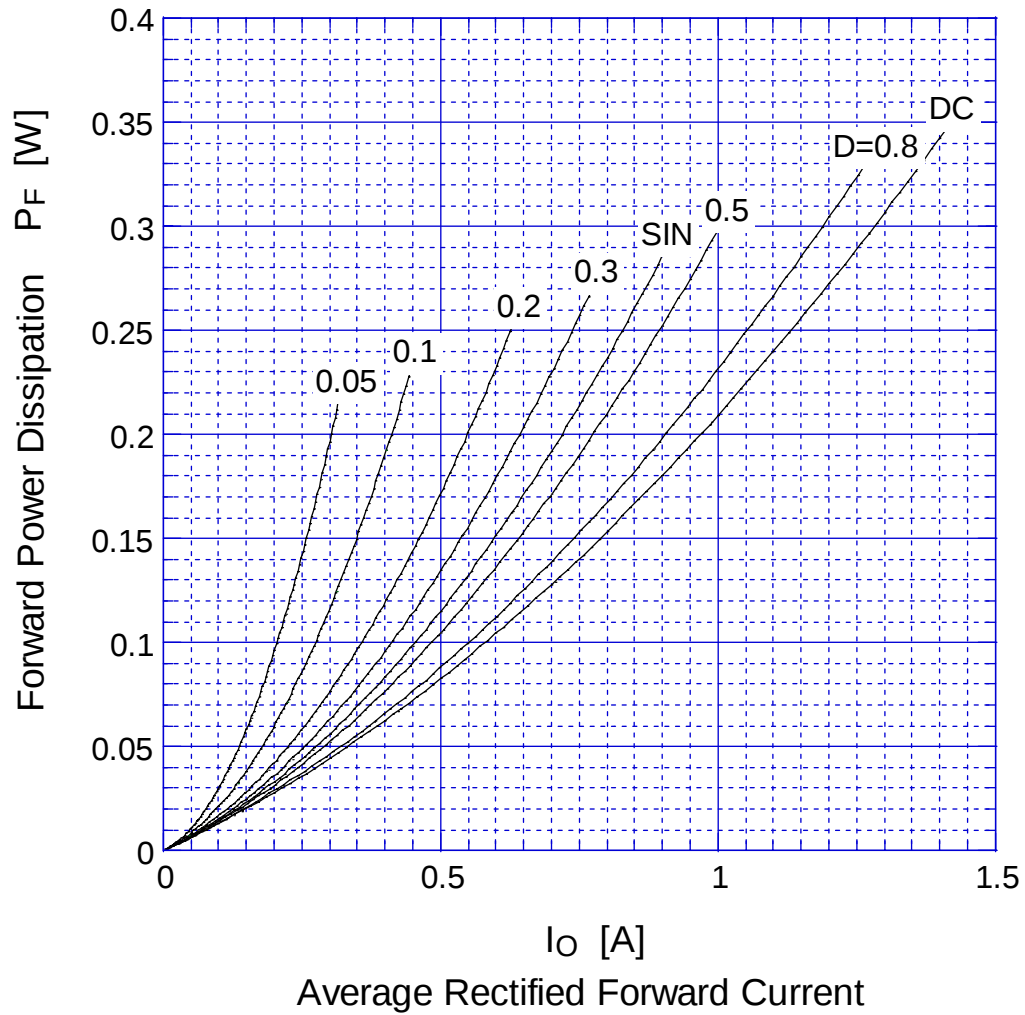
DG1H3A Forward Voltage



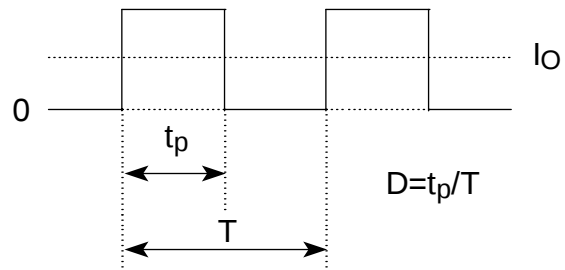
DG1H3A Reverse Current



DG1H3A Forward Power Dissipation

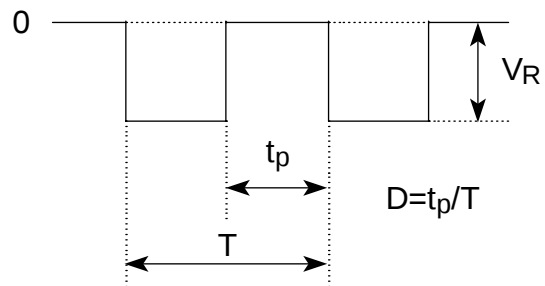
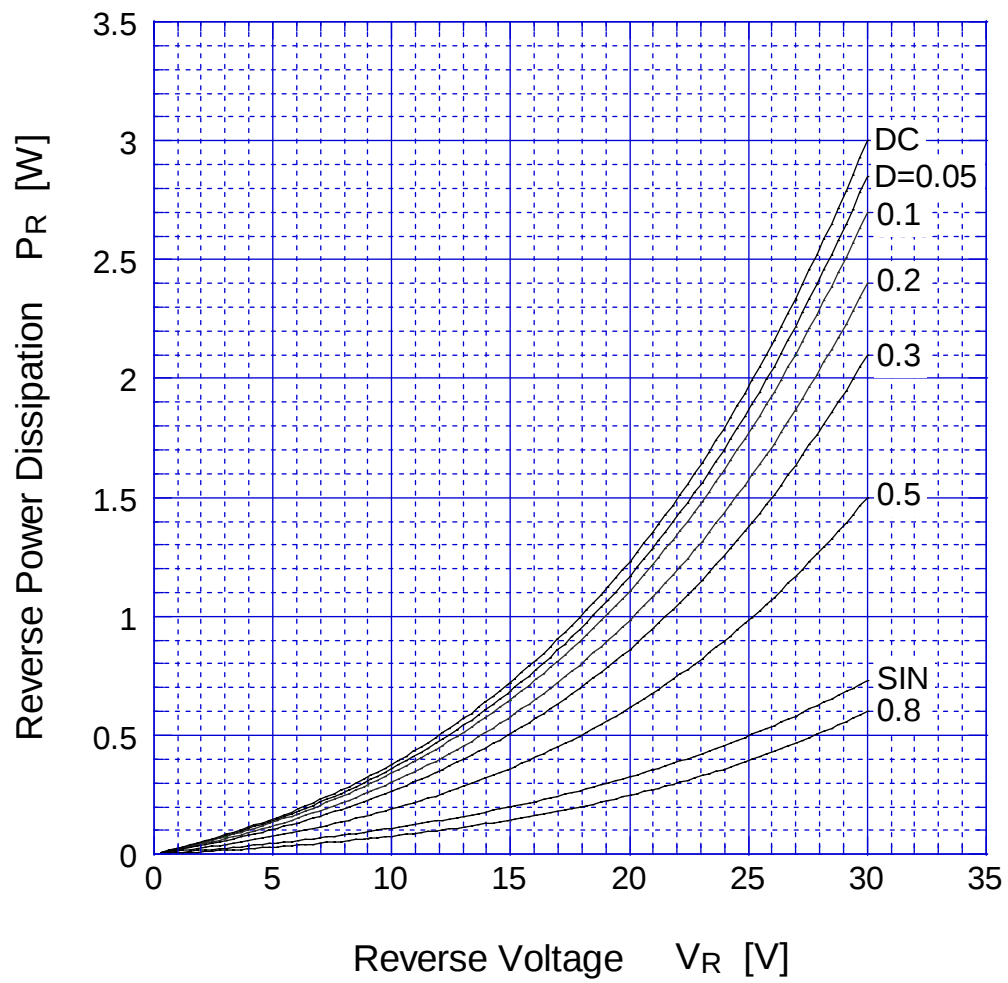


$T_j = 125^\circ\text{C}$



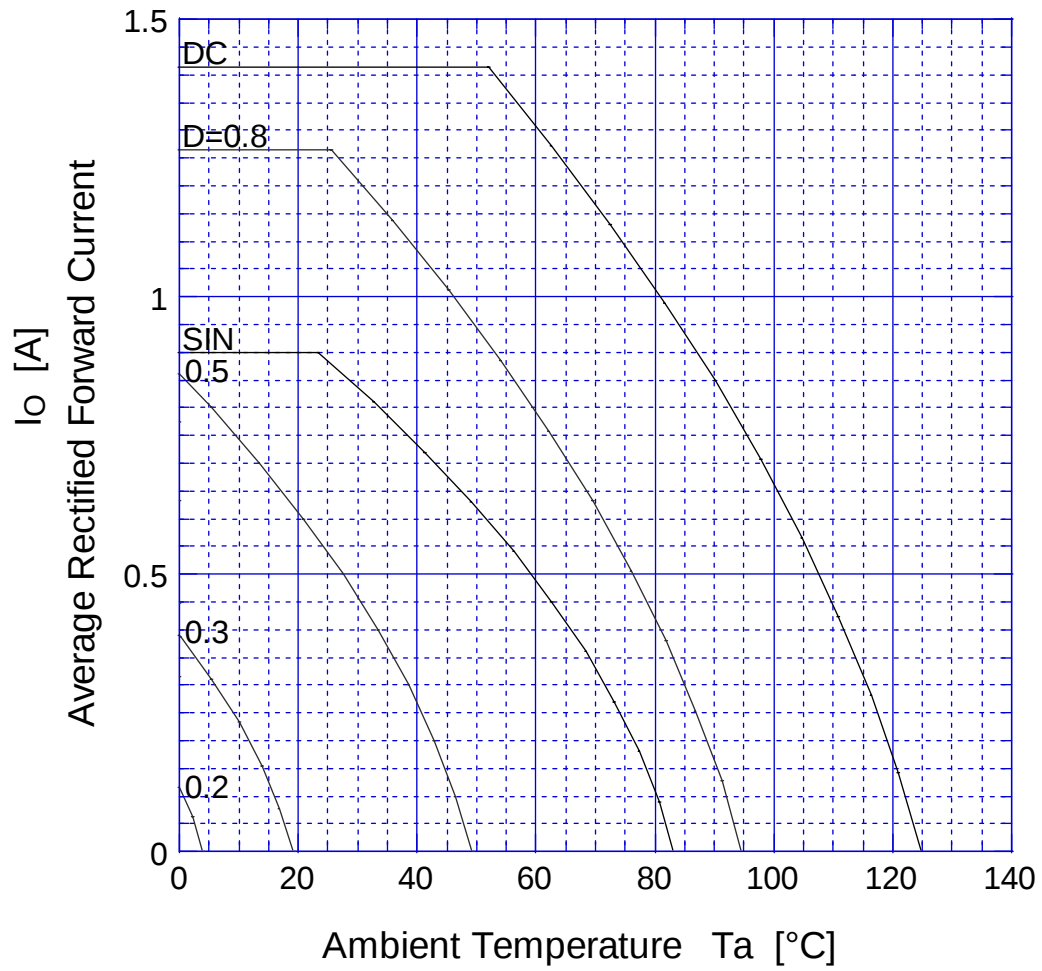
DG1H3A

Reverse Power Dissipation

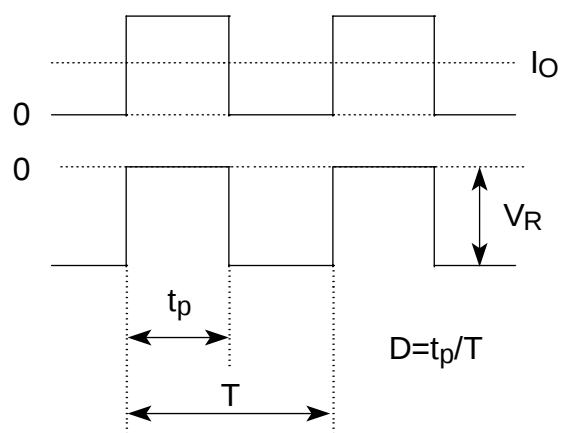
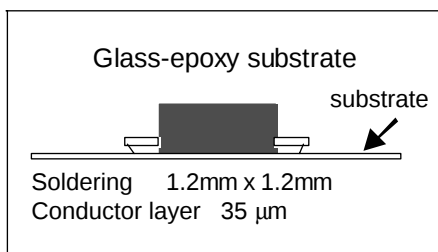


DG1H3A

Derating Curve

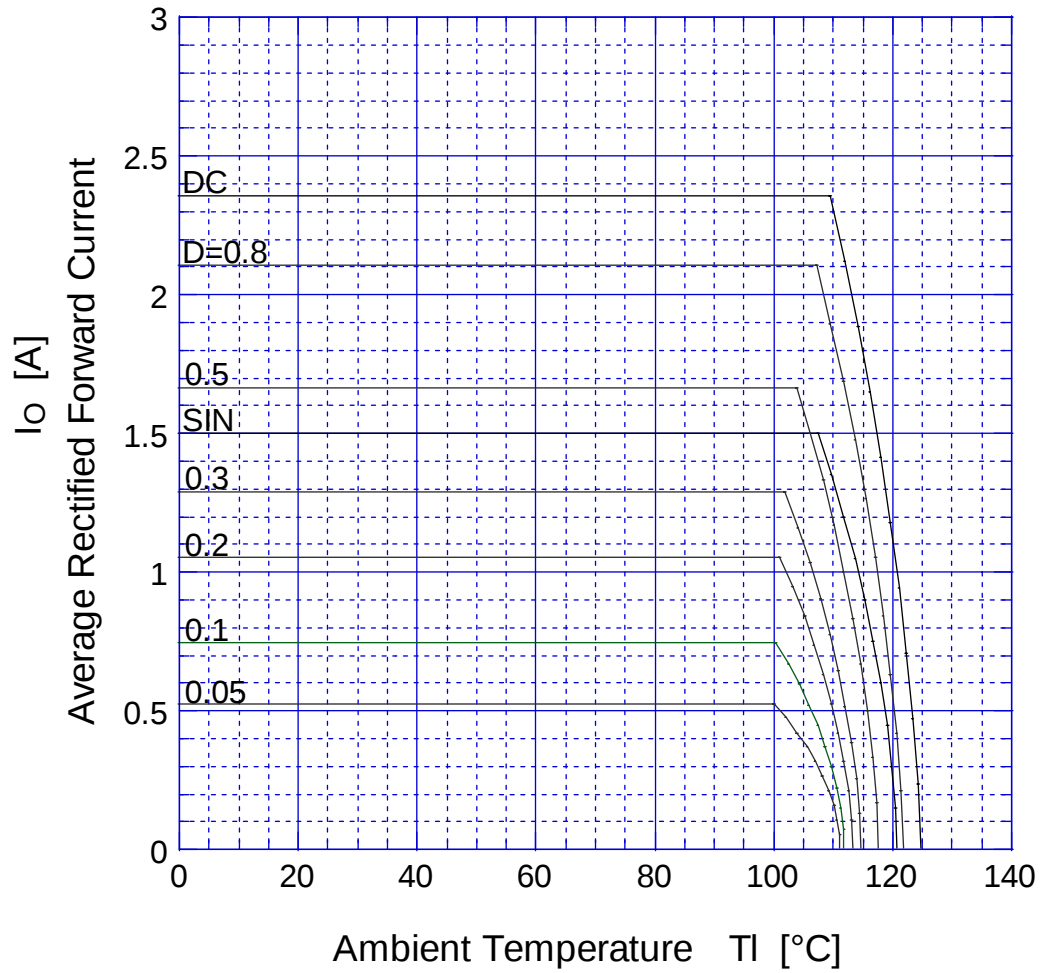


$V_R = 15V$

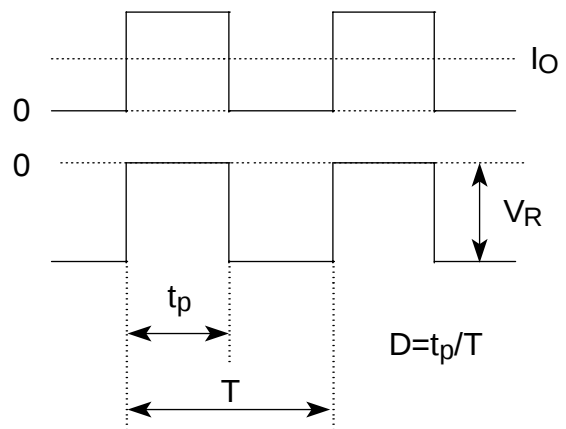
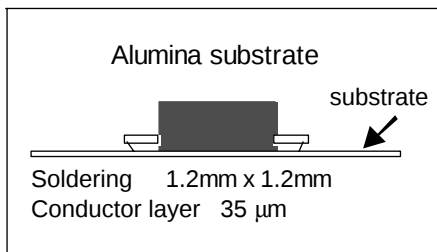


DG1H3A

Derating Curve



$V_R = 15V$



DG1H3A Peak Surge Forward Capability

