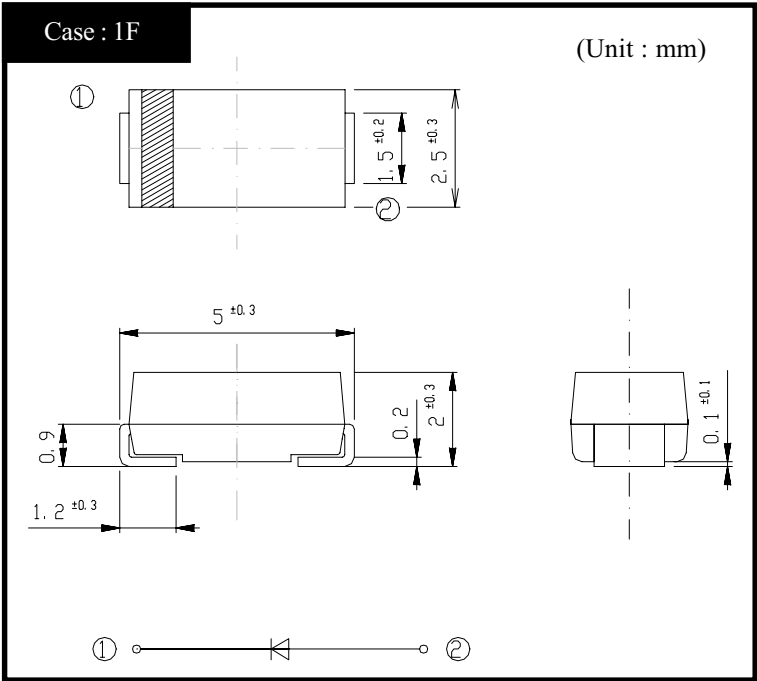


D1FK70

700V 0.8A

OUTLINE DIMENSIONS



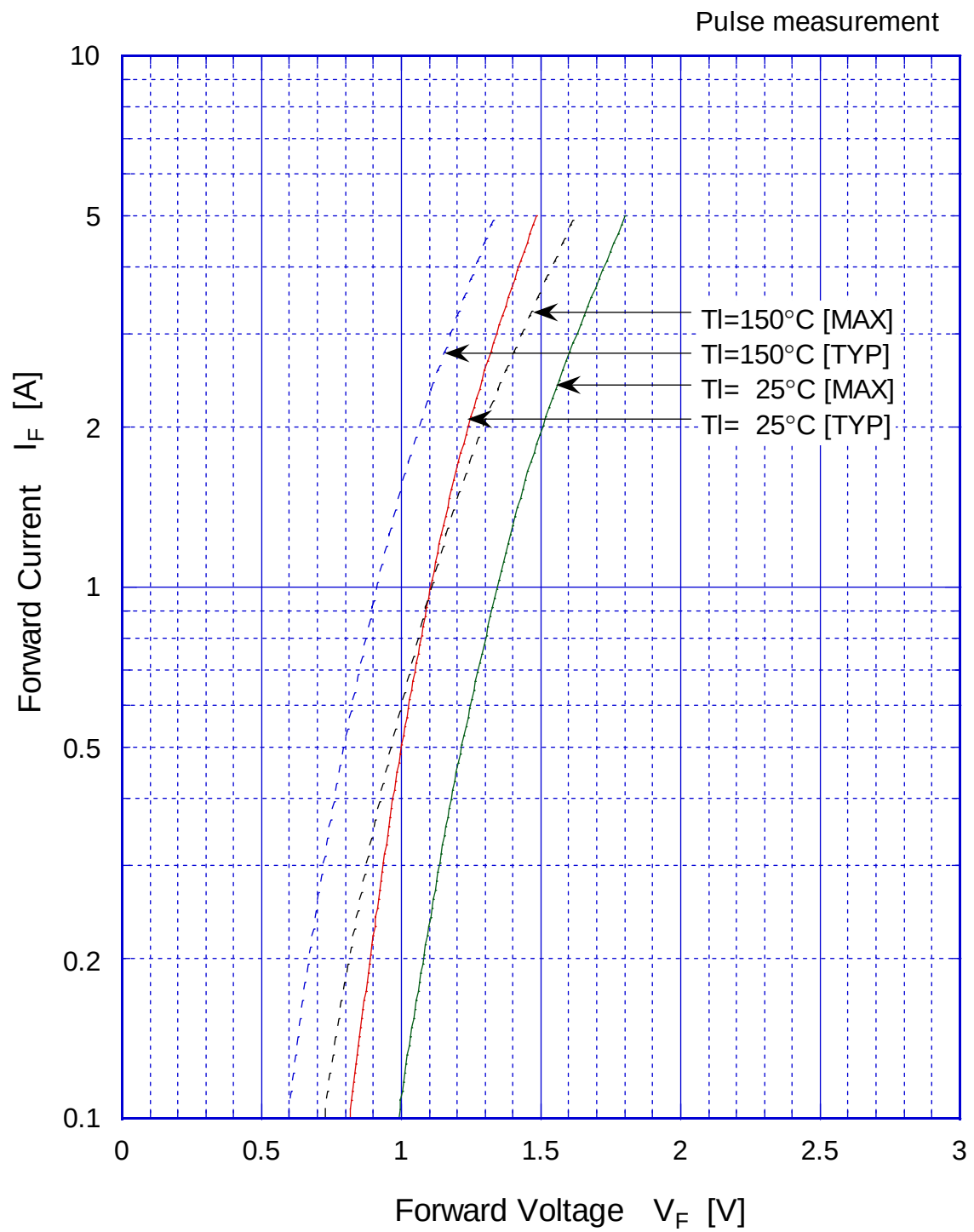
RATINGS

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

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 to +150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		700	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, alumina substrate Ta=32°C	0.8	A
		50Hz sine wave, R-load, glass-epoxy substrate Ta=33°C	0.6	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	A

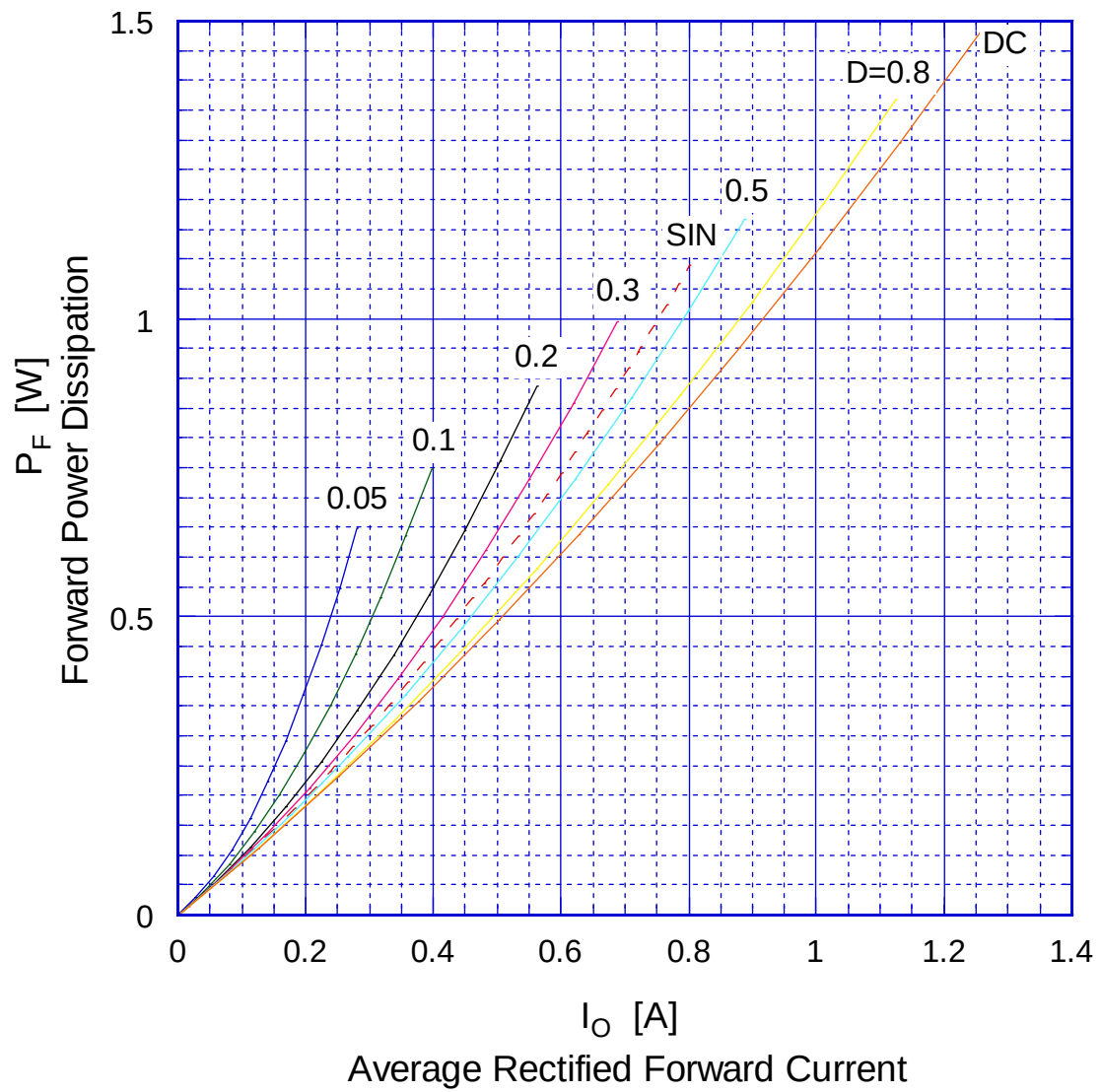
Electrical Characteristics (Unless otherwise specified, Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF = 0.8A, Pulse measurement	Max 1.3	V
Reverse Current	IR	VR = VRM, Pulse measurement	Max 10	μ A
Reverse Recovery Time	trr	IF = 0.5A, IR = 1A	Max 400	ns
Junction Capacitance	Cj	f = 1MHz, VR = 10V	Typ 7	pF
Thermal Resistance	θ jl	junction to lead	Max 23	°C/W
		junction to ambient, alumina substrate	Max 108	
	θ ja	junction to ambient, glass-epoxy substrate	Max 157	

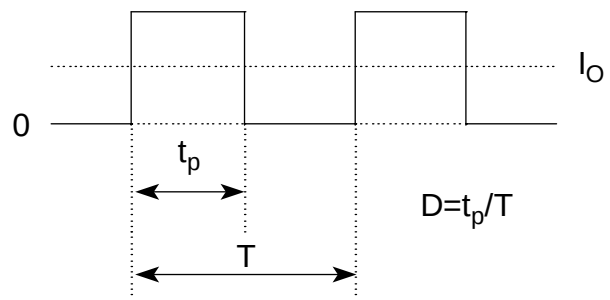


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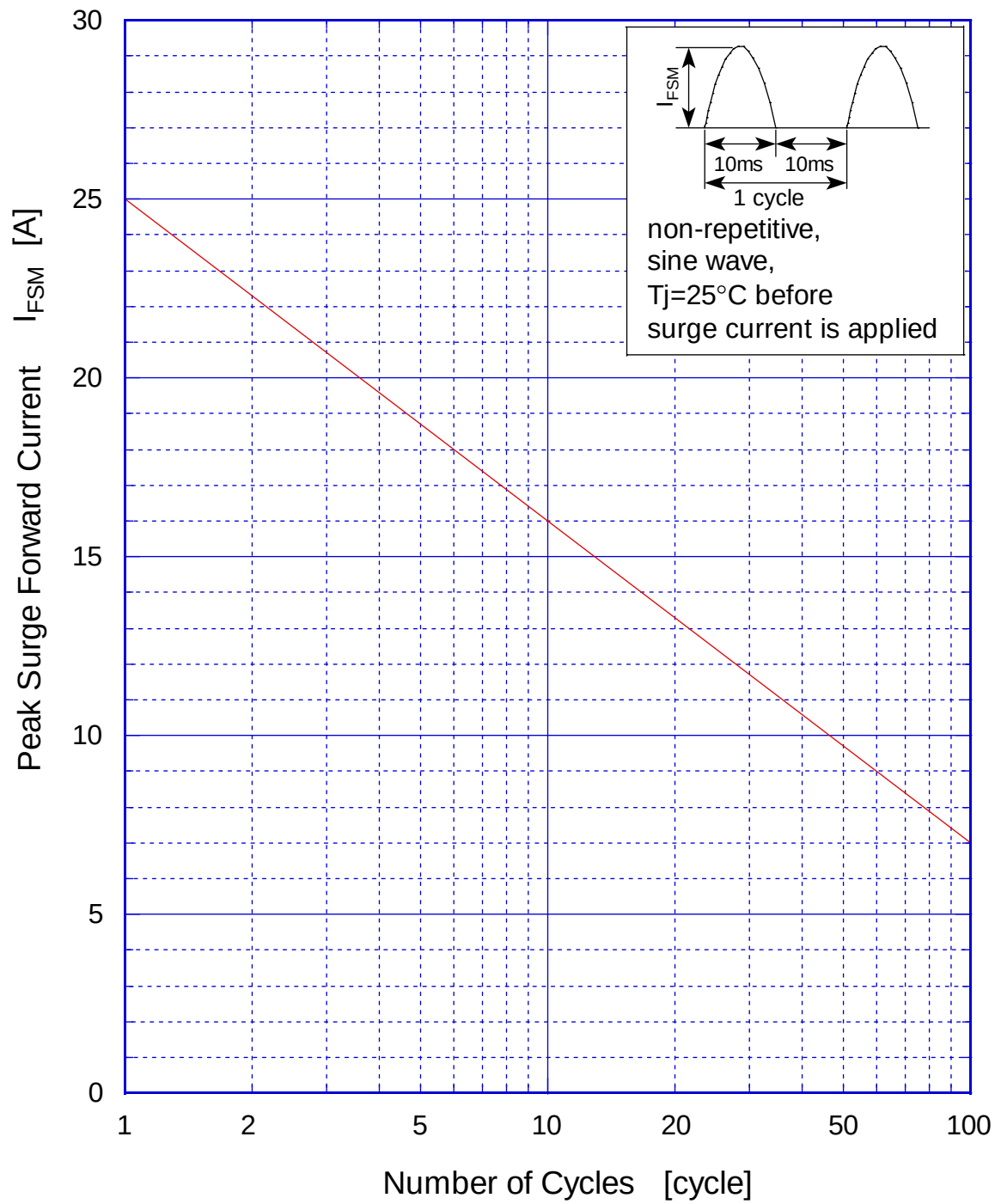
Forward Power Dissipation



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

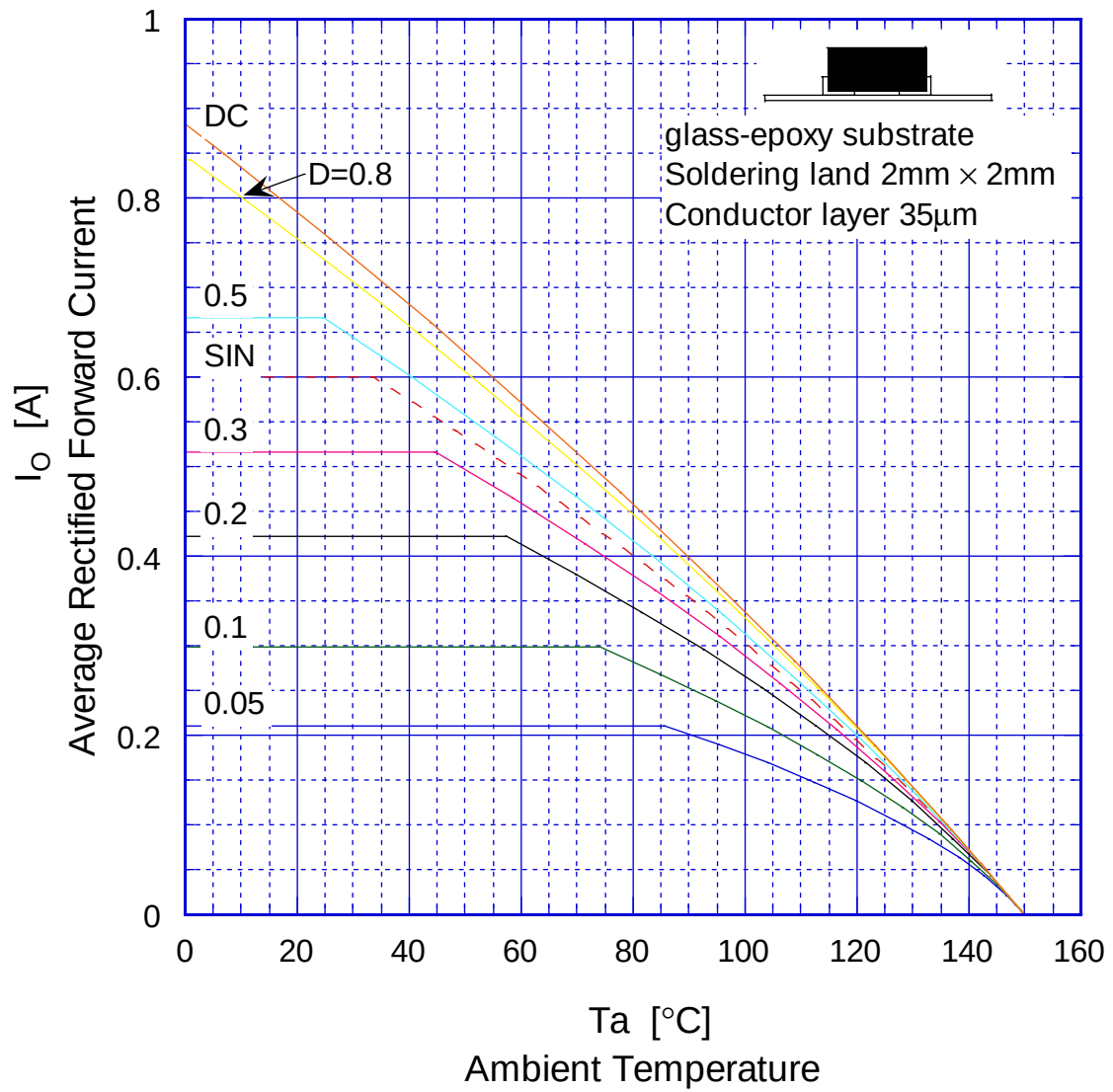


D1FK70 Peak Surge Forward Capability

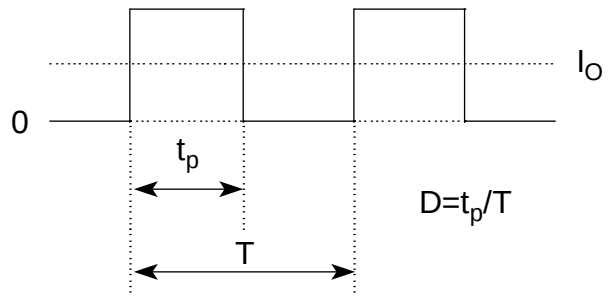


D1FK70

Derating Curve

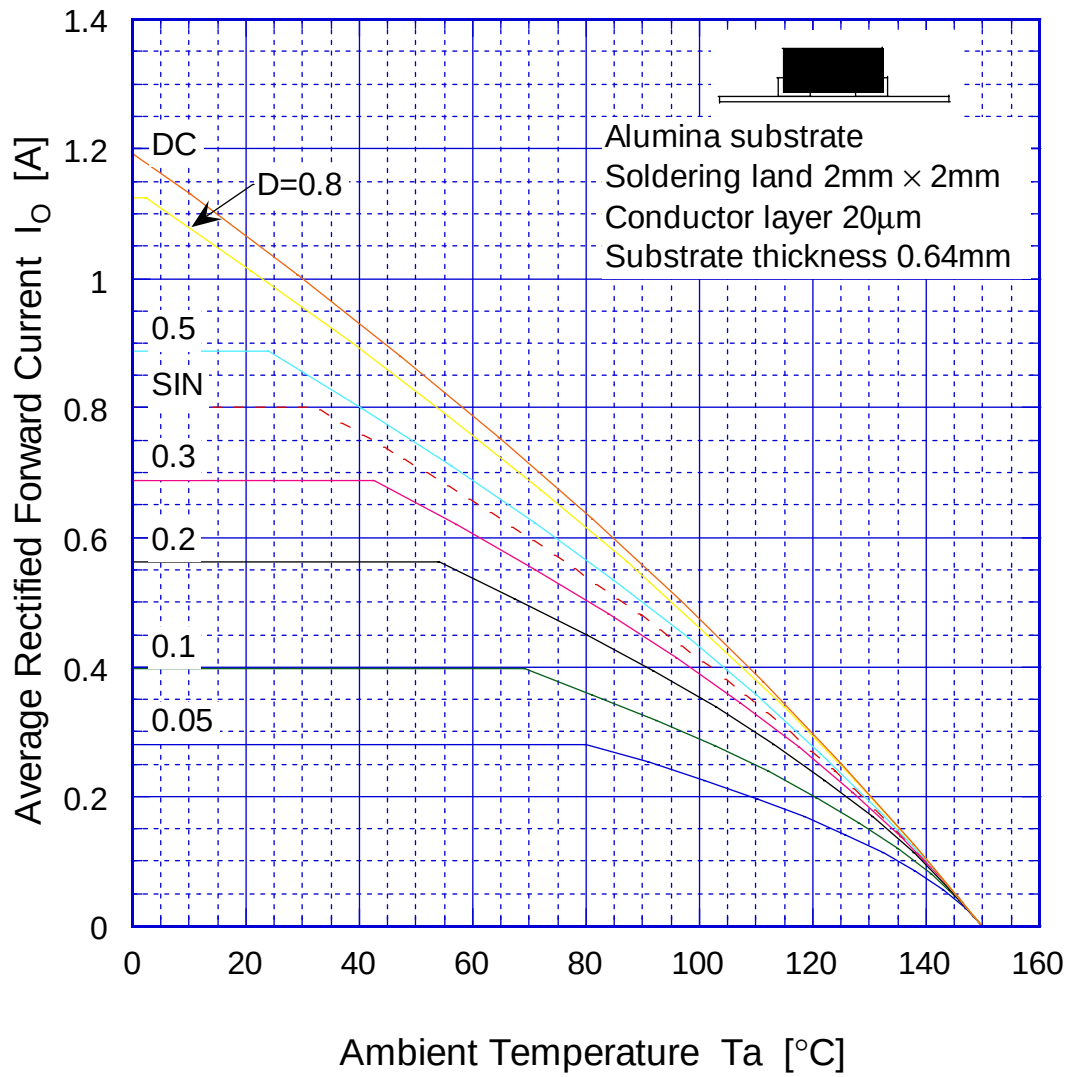


$$V_R = V_{RM}$$

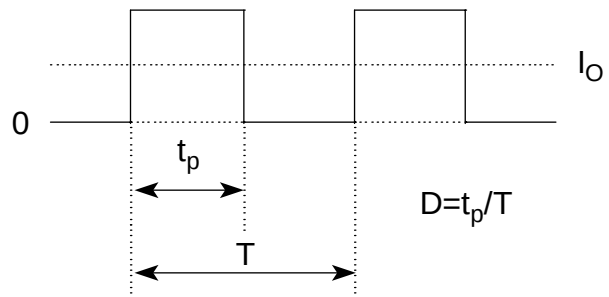


D1FK70

Derating Curve



$$V_R = V_{RM}$$



D1FK70 Junction Capacitance

