

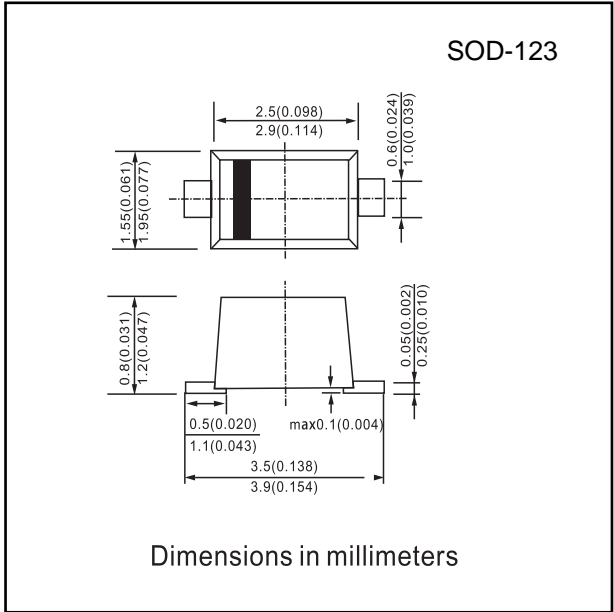


D1FH3

30V 3A

FEATURES

High reliability with superior moisture resistance
 Applicable to Automatic Insertion



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

● 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

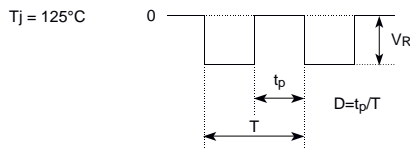
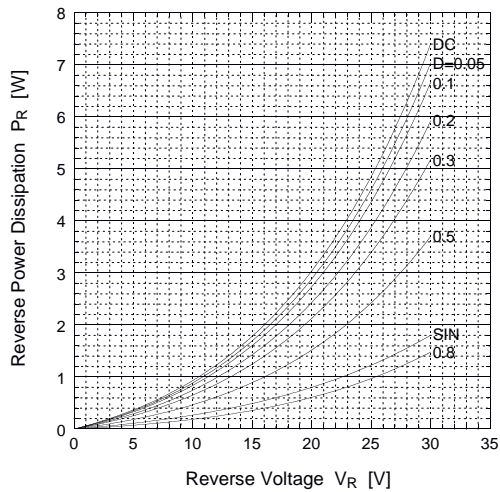
● Electrical Characteristics Tc=25°C

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	θjc	junction to case	Max.16	°C/W
	θjl	junction to lead	Max.18	
	θja	junction to ambient On glass-epoxy substrate	Max.65	

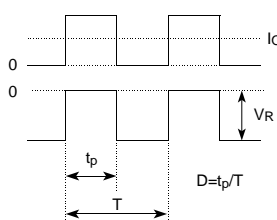
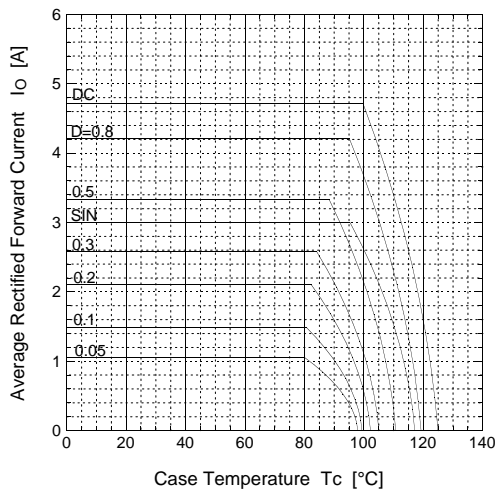
RATINGS AND CHARACTERISTIC CURVES

D1FH3

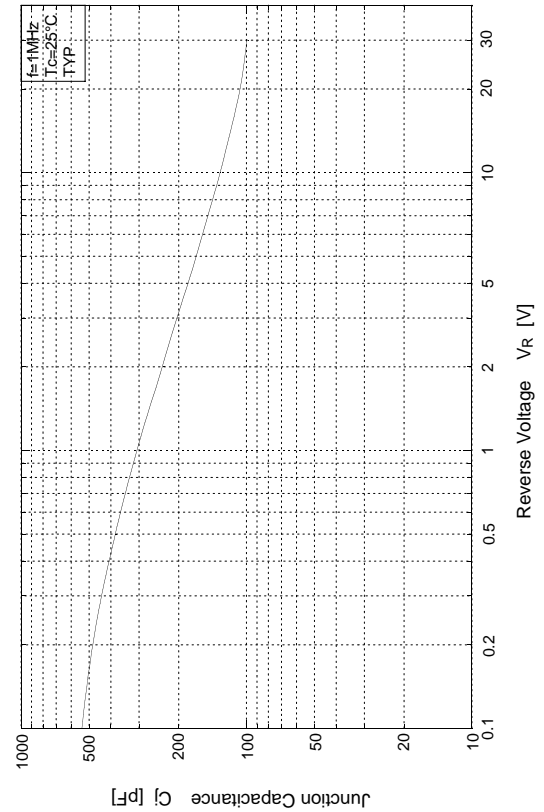
D1FH3 Reverse Power Dissipation



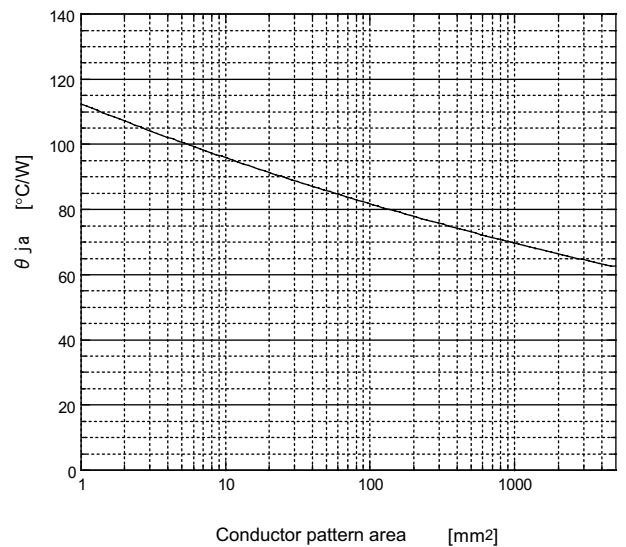
D1FH3 Derating Curve



D1FH3 Junction Capacitance



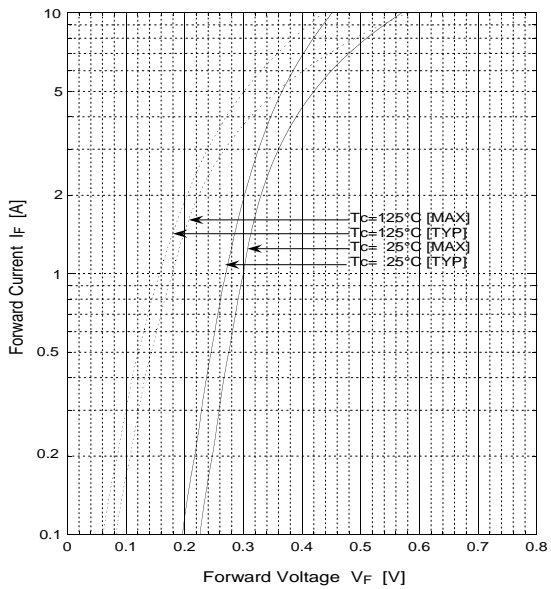
D1FH3 θ_{ja} - Conductor pattern area



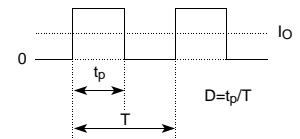
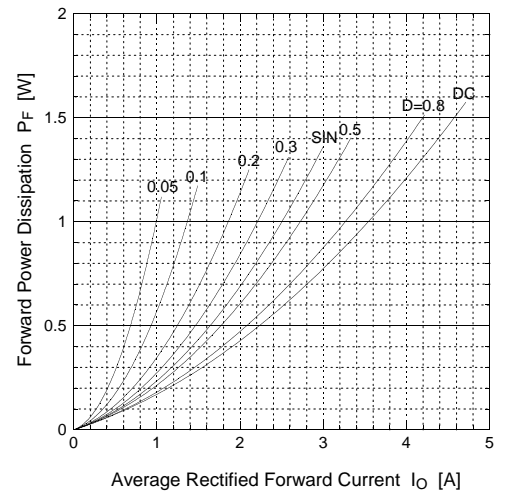
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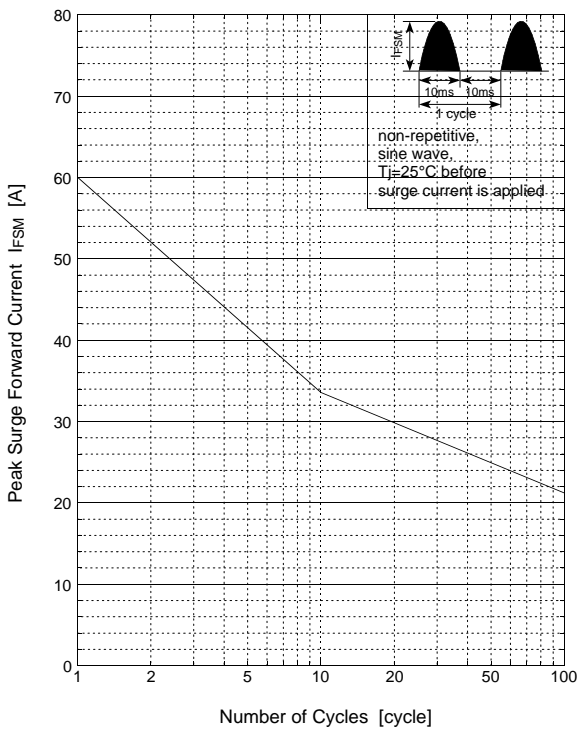
D1FH3 Forward Voltage



D1FH3 Forward Power Dissipation



D1FH3 Peak Surge Forward Capability



D1FH3 Reverse Current

