

SHINDENGEN

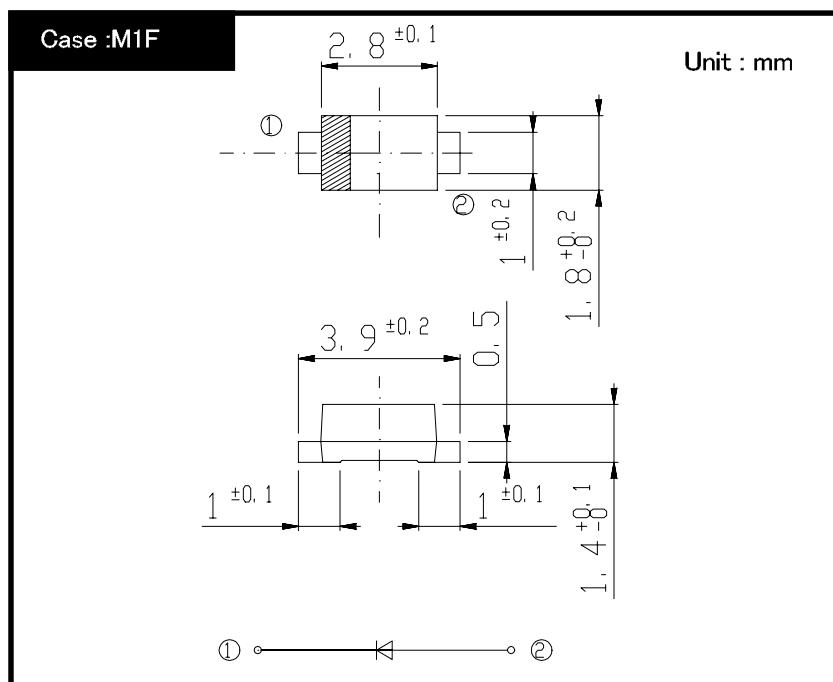
Schottky Rectifiers (SBD)

Single

M1FH3

30V 1.5A

OUTLINE DIMENSIONS



RATINGS

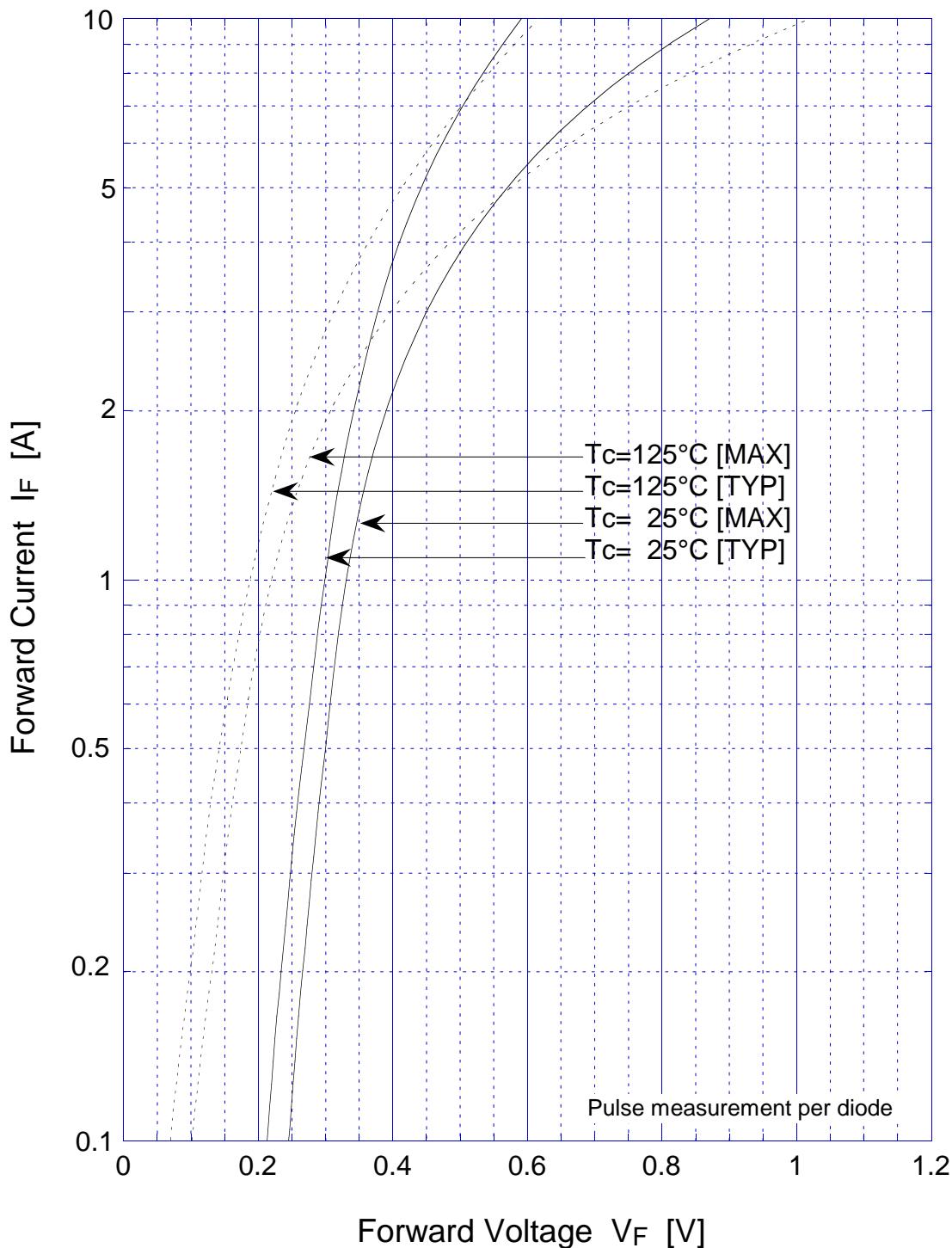
● Absolute Maximum Ratings (Tc=25°C)

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=105°C	1.5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A

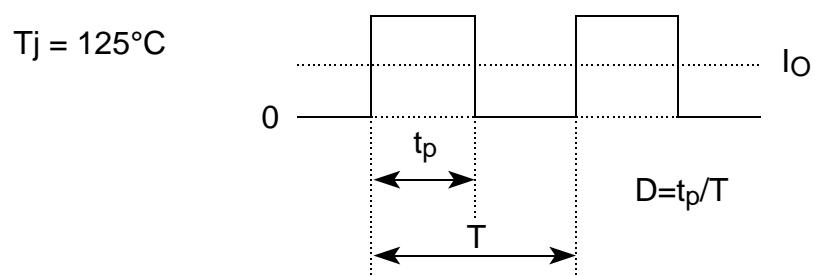
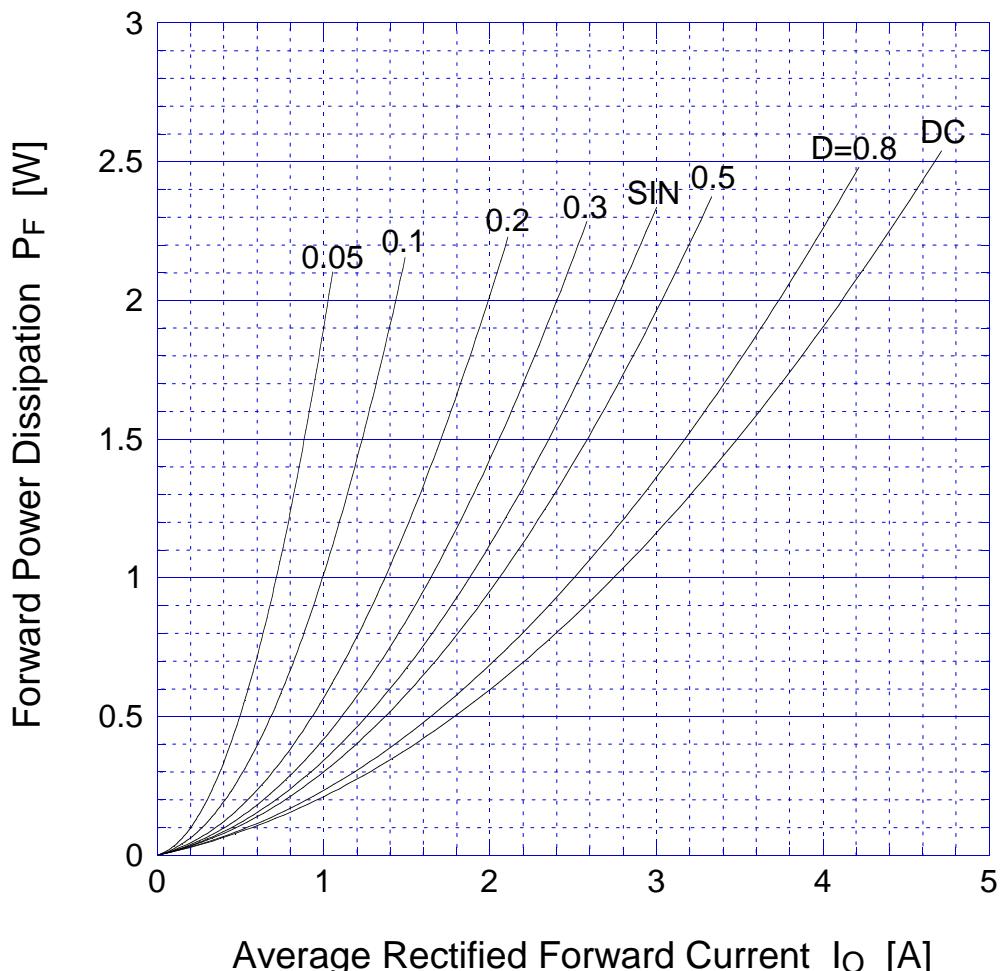
● Electrical Characteristics Tc=25°C

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _{F1}	If=0.5A, Pulse measurement	Max.0.30	V
	V _{F2}	If=1.5A, Pulse measurement	Max.0.36	
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.1.0	mA
Junction Capacitance	C _j	f=1MHz, V _R =10V	Typ.80	pF
Thermal Resistance	θ _{jc}	junction to case	Max.18	°C/W
	θ _{jl}	junction to lead	Max.20	
	θ _{ja}	junction to ambient On glass-epoxy substrate	Max.80	

M1FH3 Forward Voltage

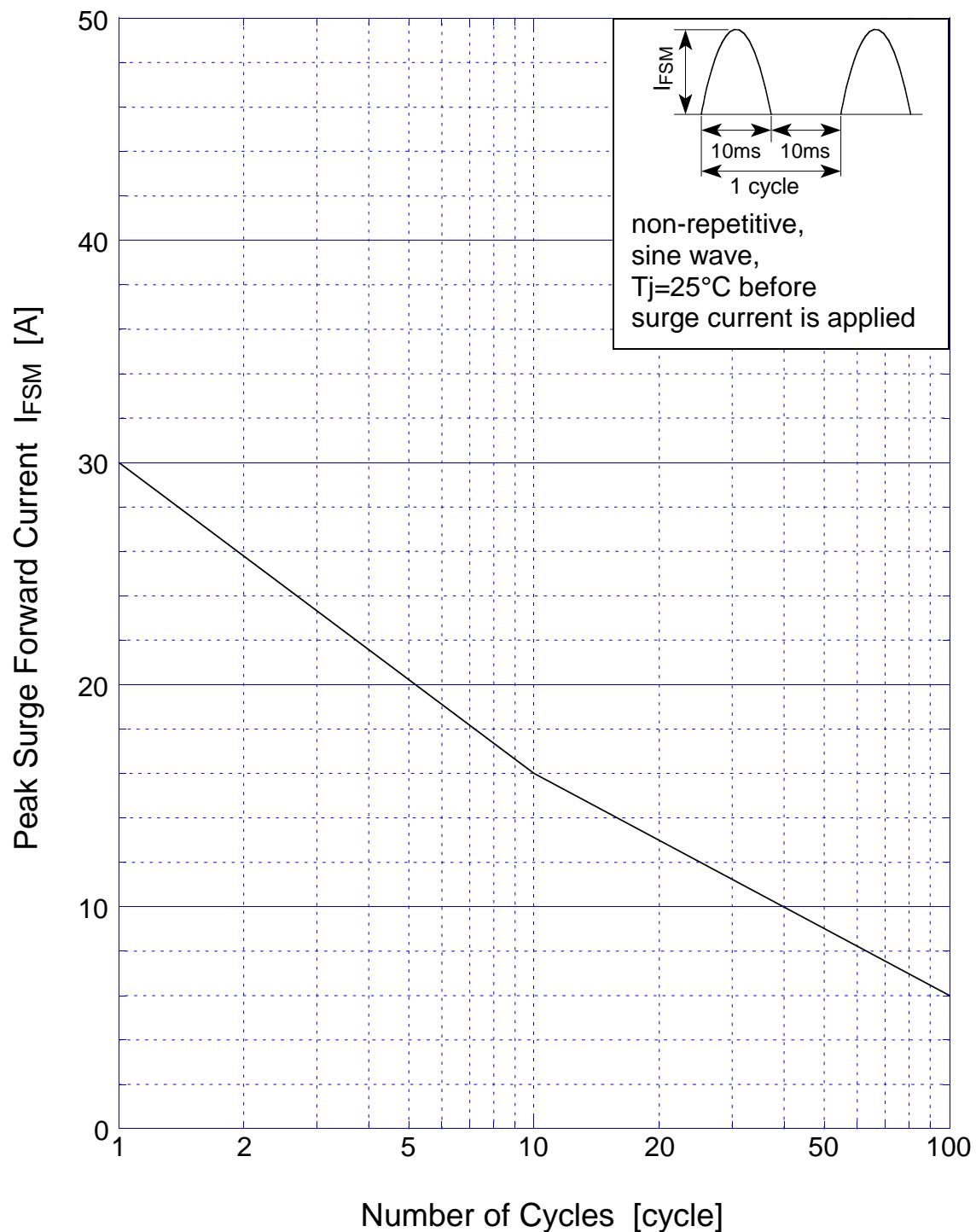


M1FH3 Forward Power Dissipation



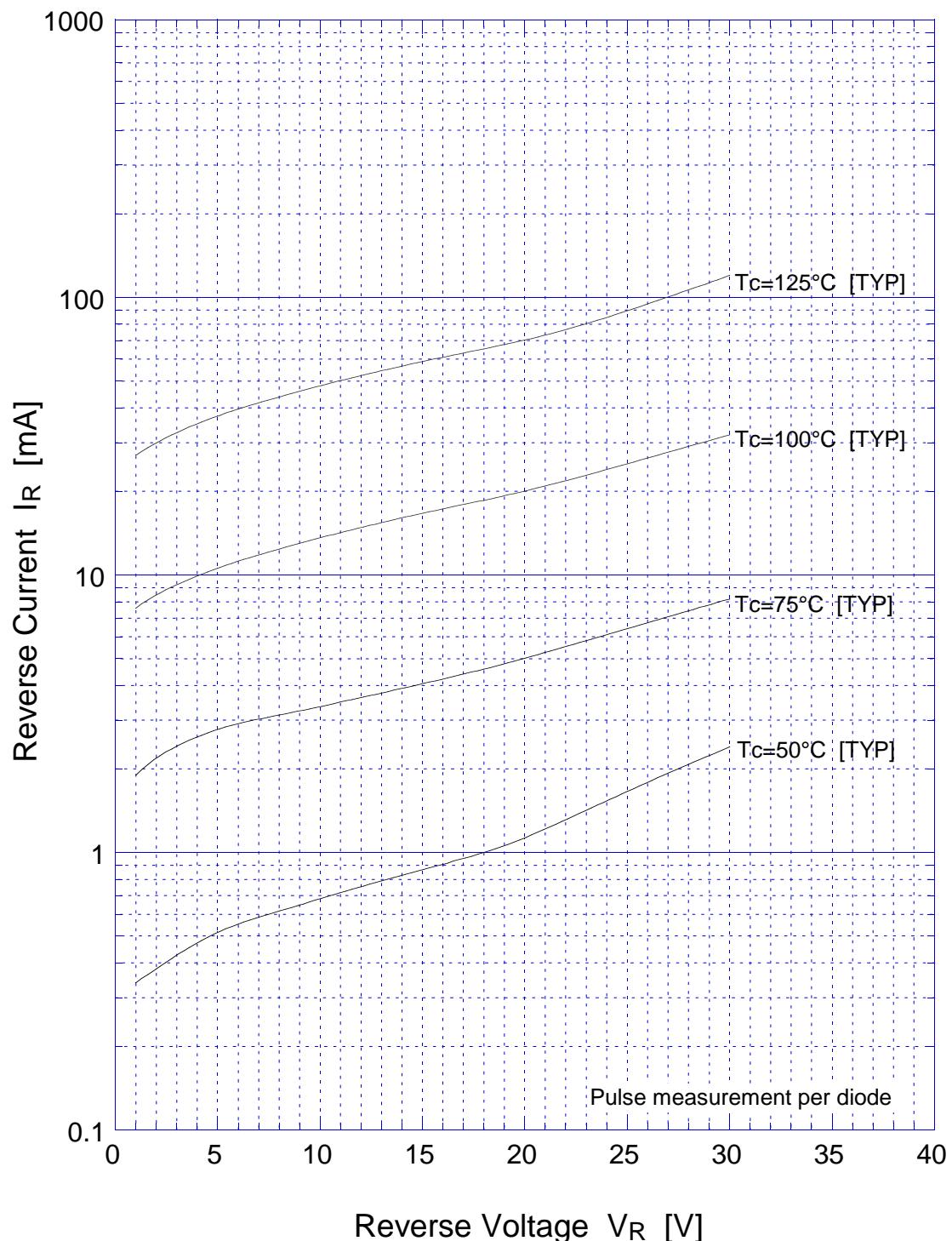
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Peak Surge Forward Capability



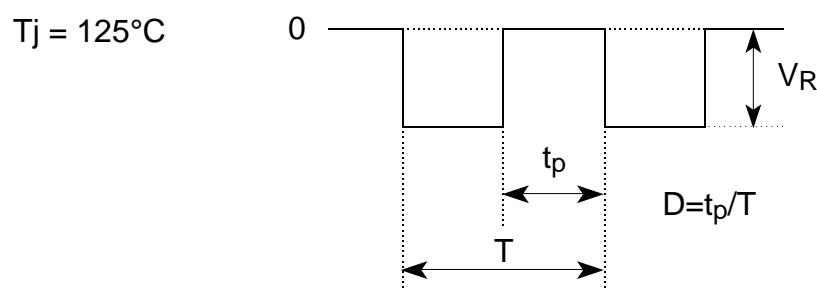
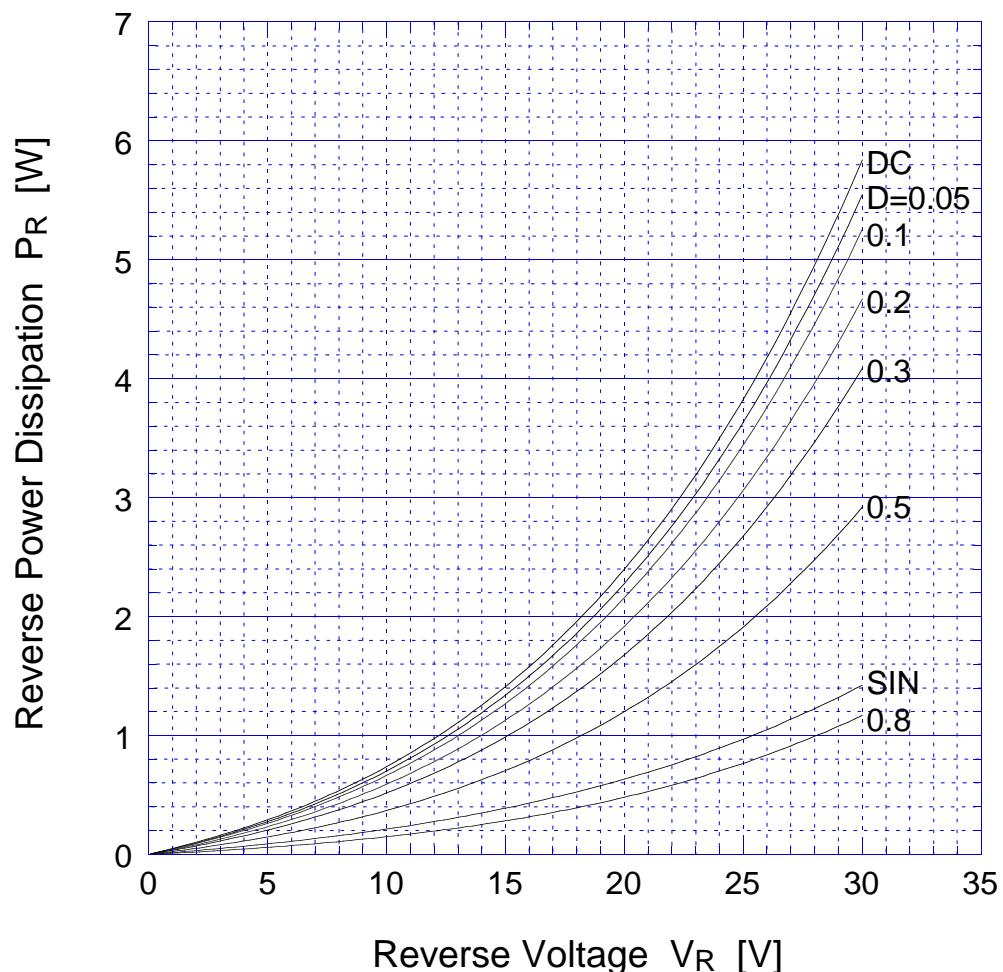
M1FH3

Reverse Current

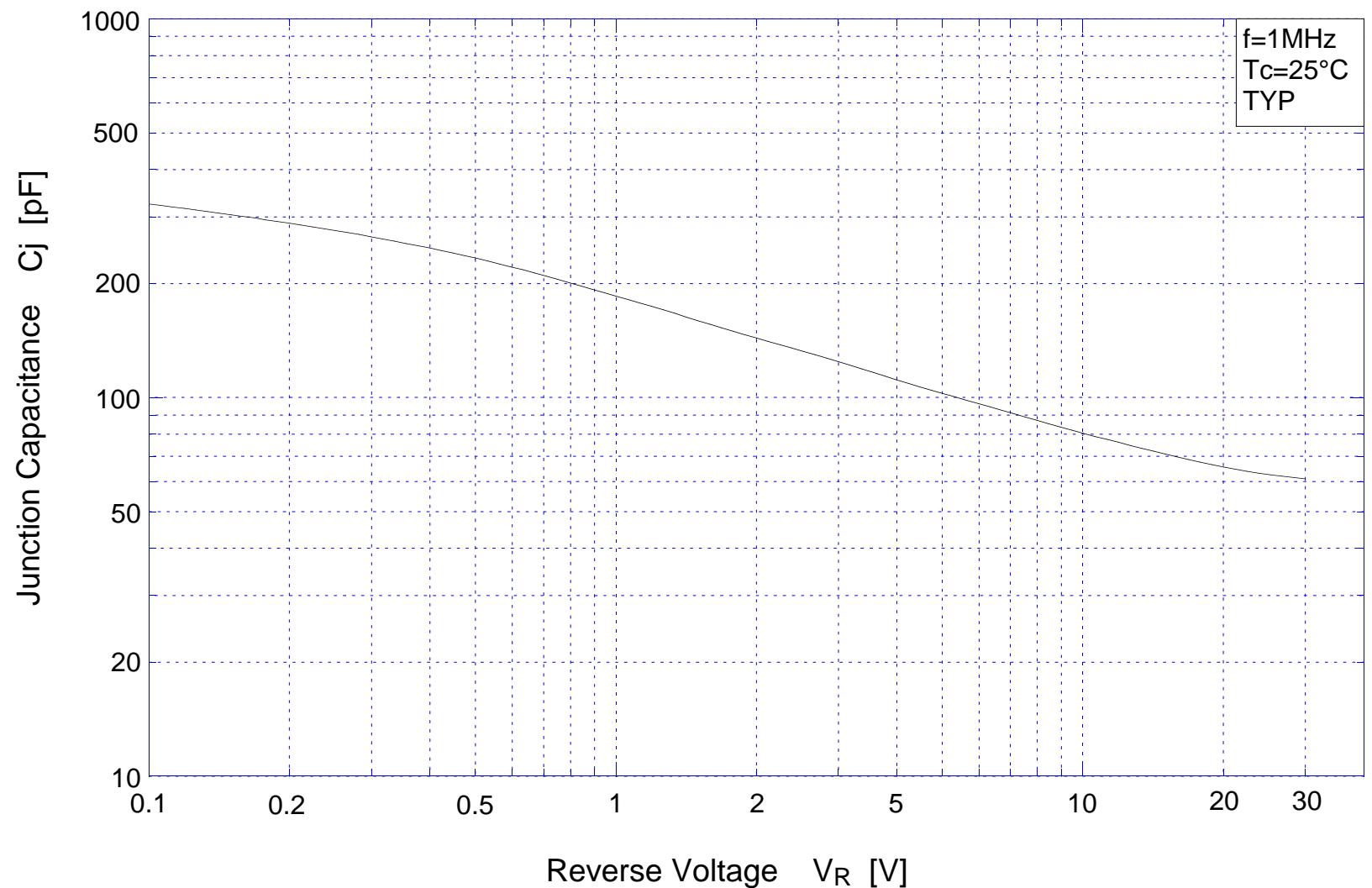


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Reverse Power Dissipation

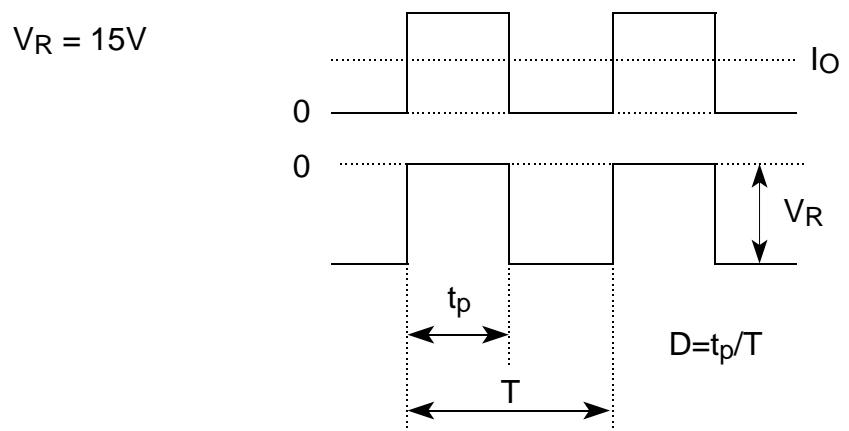
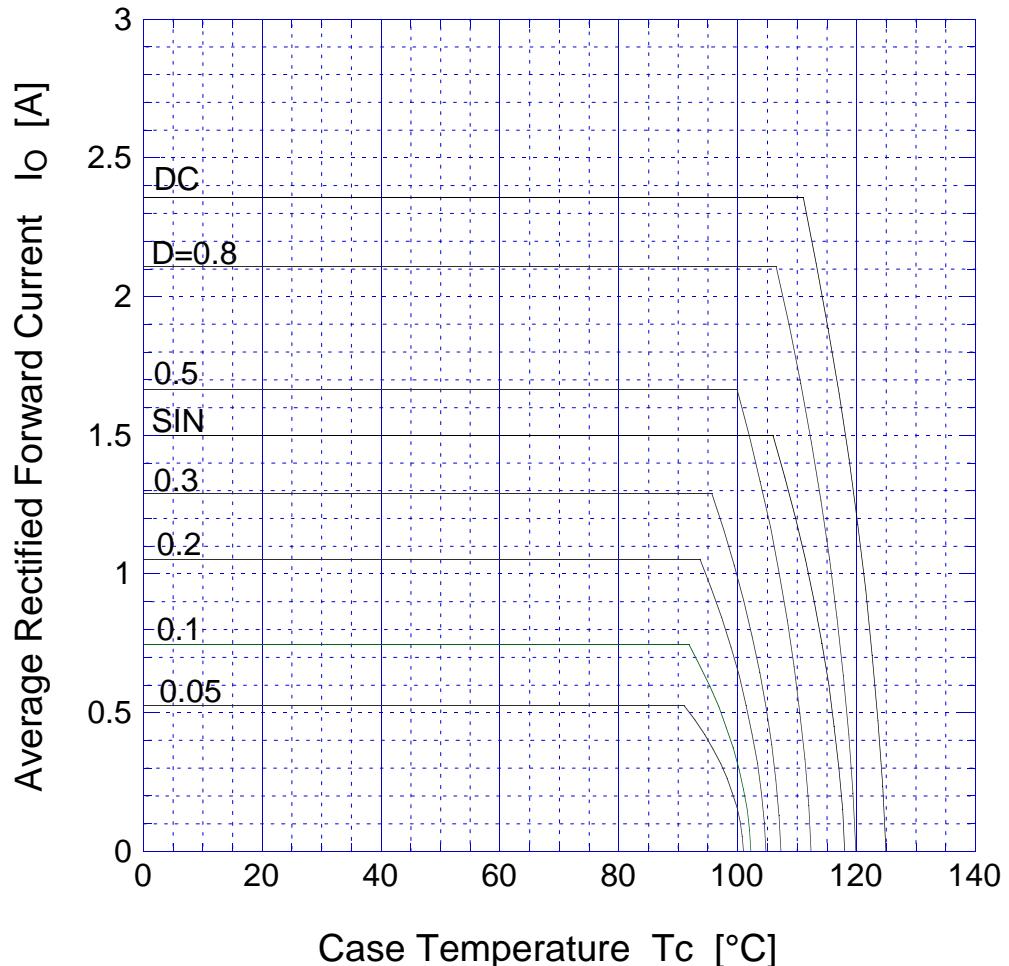


M1FH3 Junction Capacitance



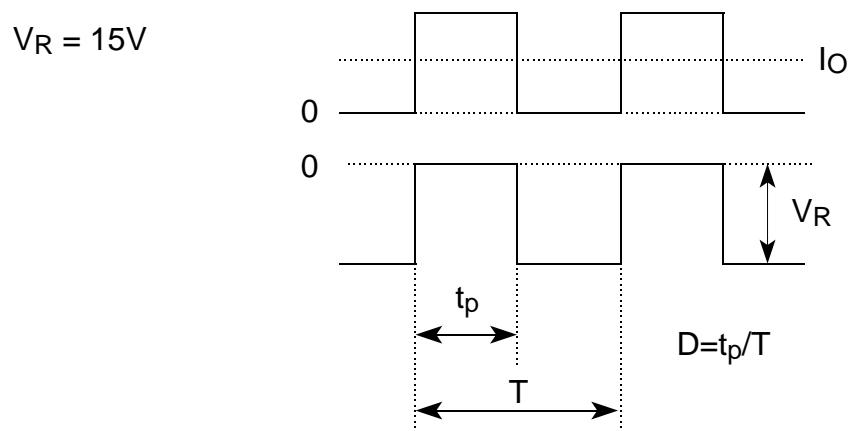
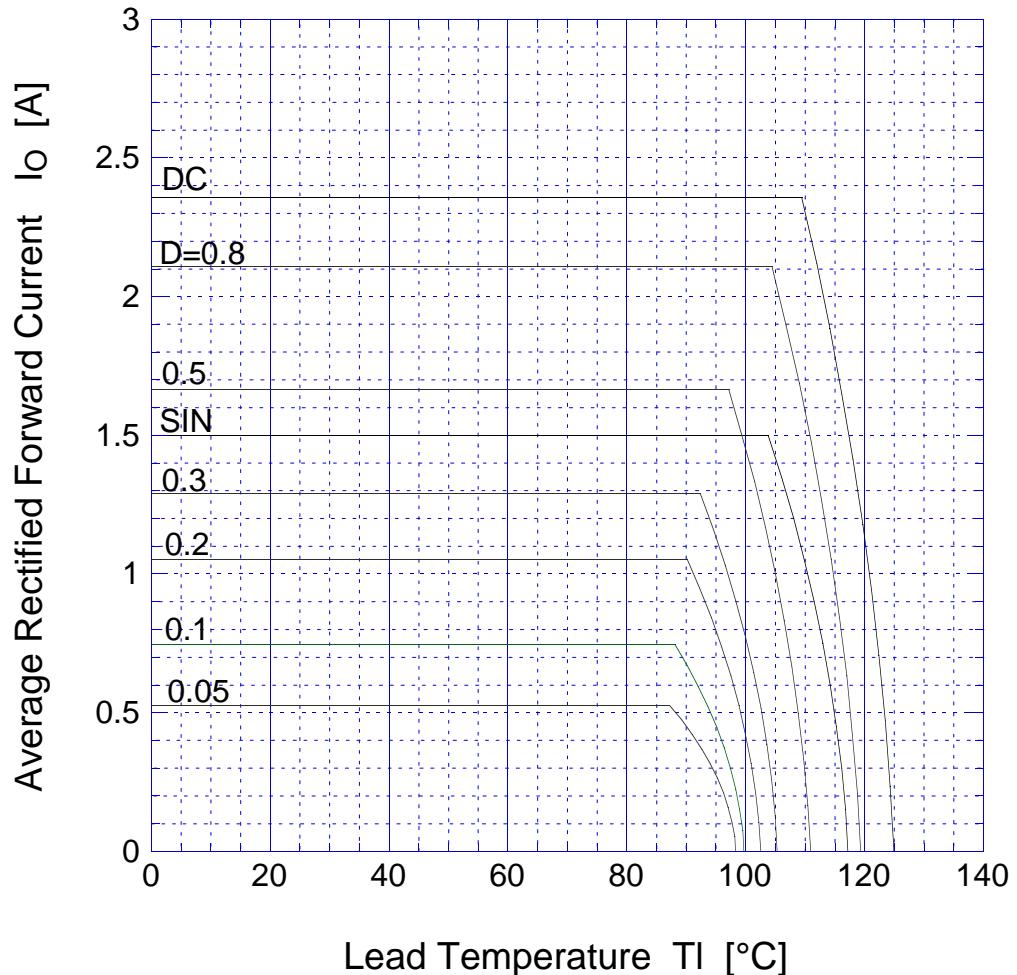
M1FH3

Derating Curve

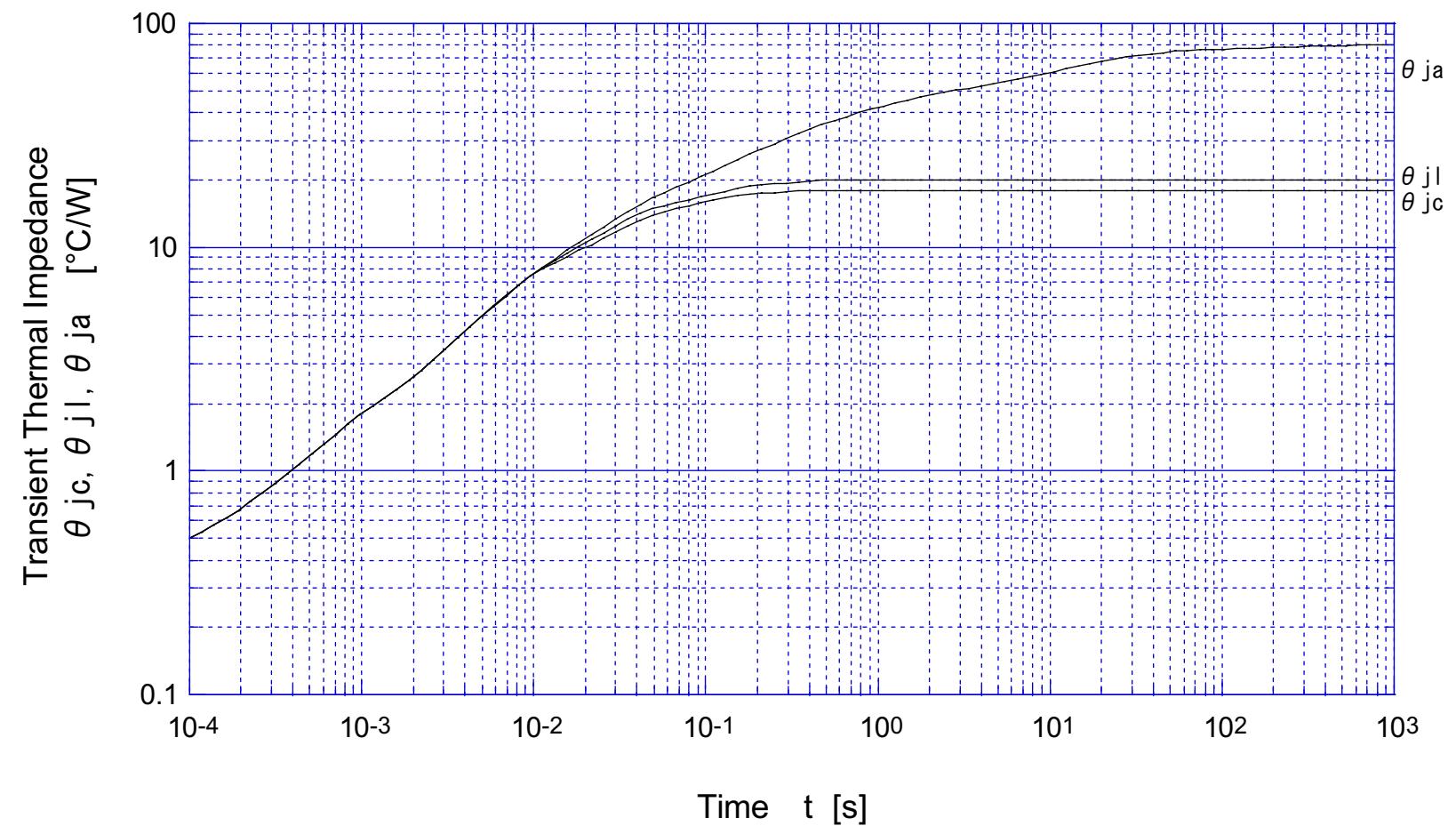


M1FH3

Derating Curve



M1FH3 Transient Thermal Impedance



M1FH3

θ_{ja} -

Conductor pattern area

