

SHINDENGEN

Schottky Rectifiers (SBD)

Single

D1FP3

30V 2A

FEATURES

- Small SMT
- Super low $V_F=0.4V$

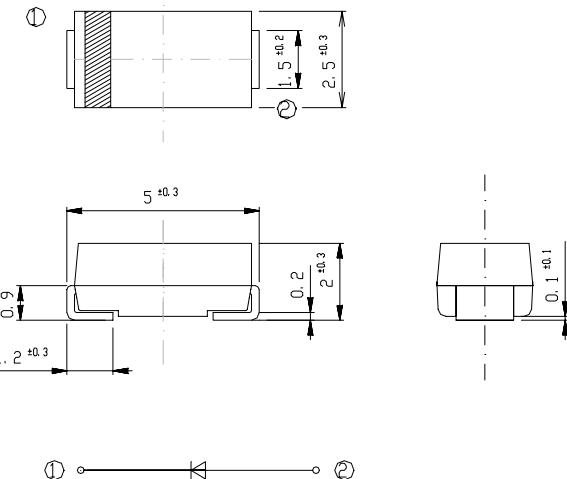
APPLICATION

- Reversed Battery Connection Protection
- DC OR output
- DC/DC converter
- Mobile telephone, personal computer

OUTLINE DIMENSIONS

Case : 1F

Unit : mm



RATINGS

● Absolute Maximum Ratings (If not specified $T_I=25^\circ C$)

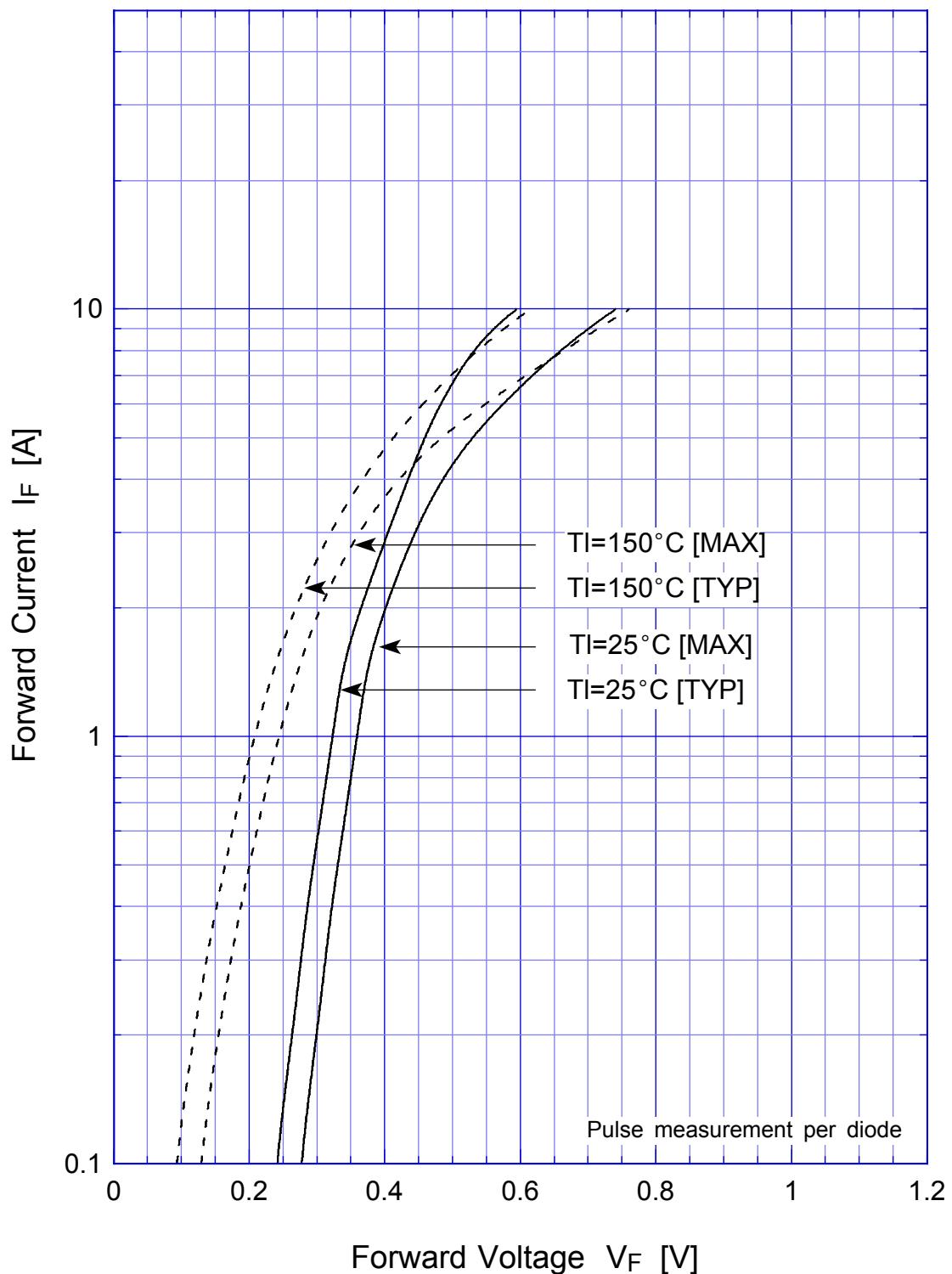
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~125	°C
Operating Junction Temperature	T_j		125	°C
Maximum Reverse Voltage	V_{RM}		30	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	Pulse width 0.5ms, duty 1/40	35	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, $T_I=98^\circ C$	2.0	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ C$	60	A

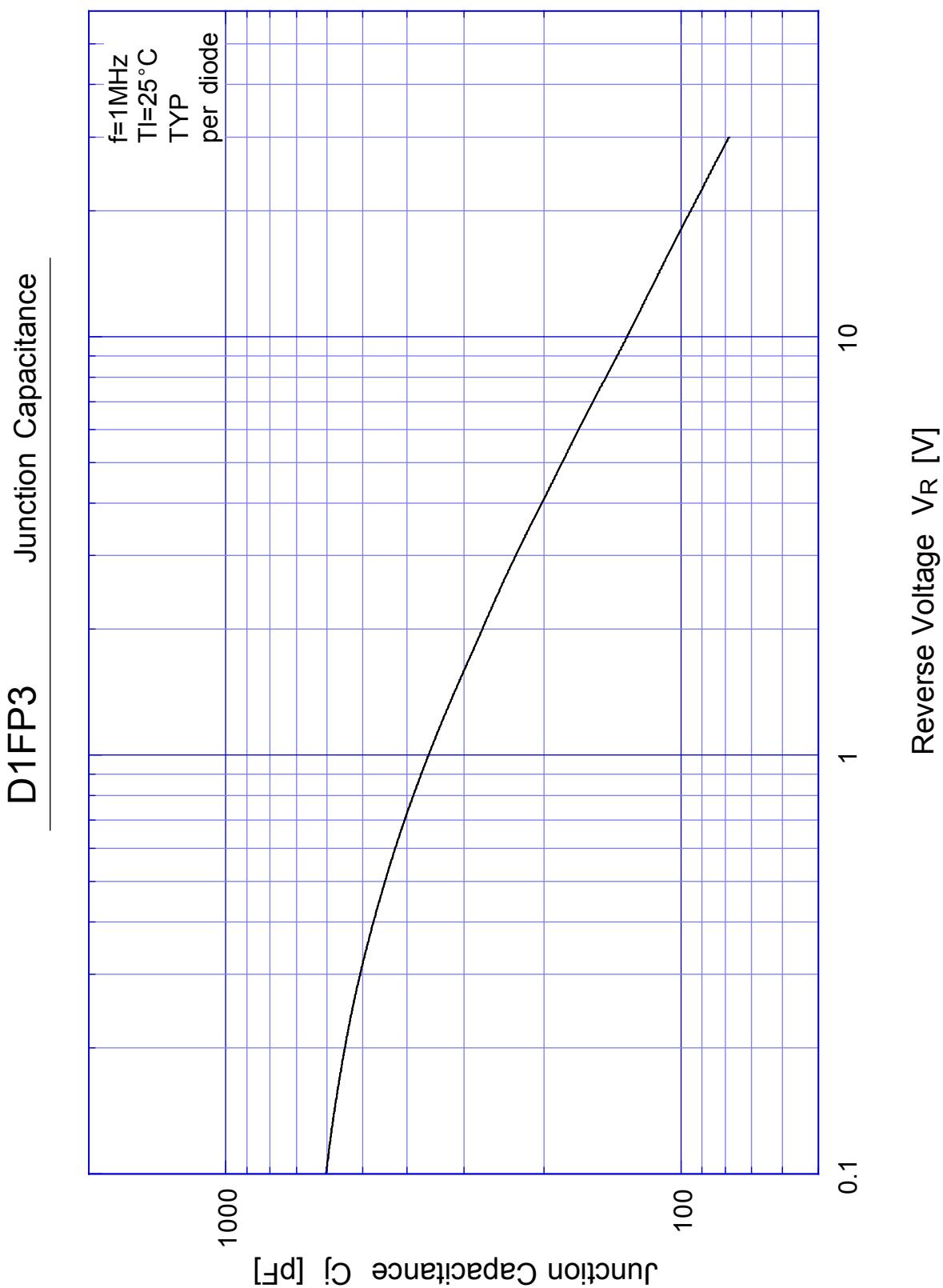
● Electrical Characteristics (If not specified $T_I=25^\circ C$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=0.8A$, Pulse measurement	Max.0.35	V
		$I_F=2A$, Pulse measurement	Max.0.40	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.4.5	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$	Typ.130	pF
Thermal Resistance	θ_{jl}	junction to lead	Max.23	°C/W
	θ_{ja}	junction to ambient On alumina substrate junction to ambient On glass-epoxy substrate	Max.108 Max.157	

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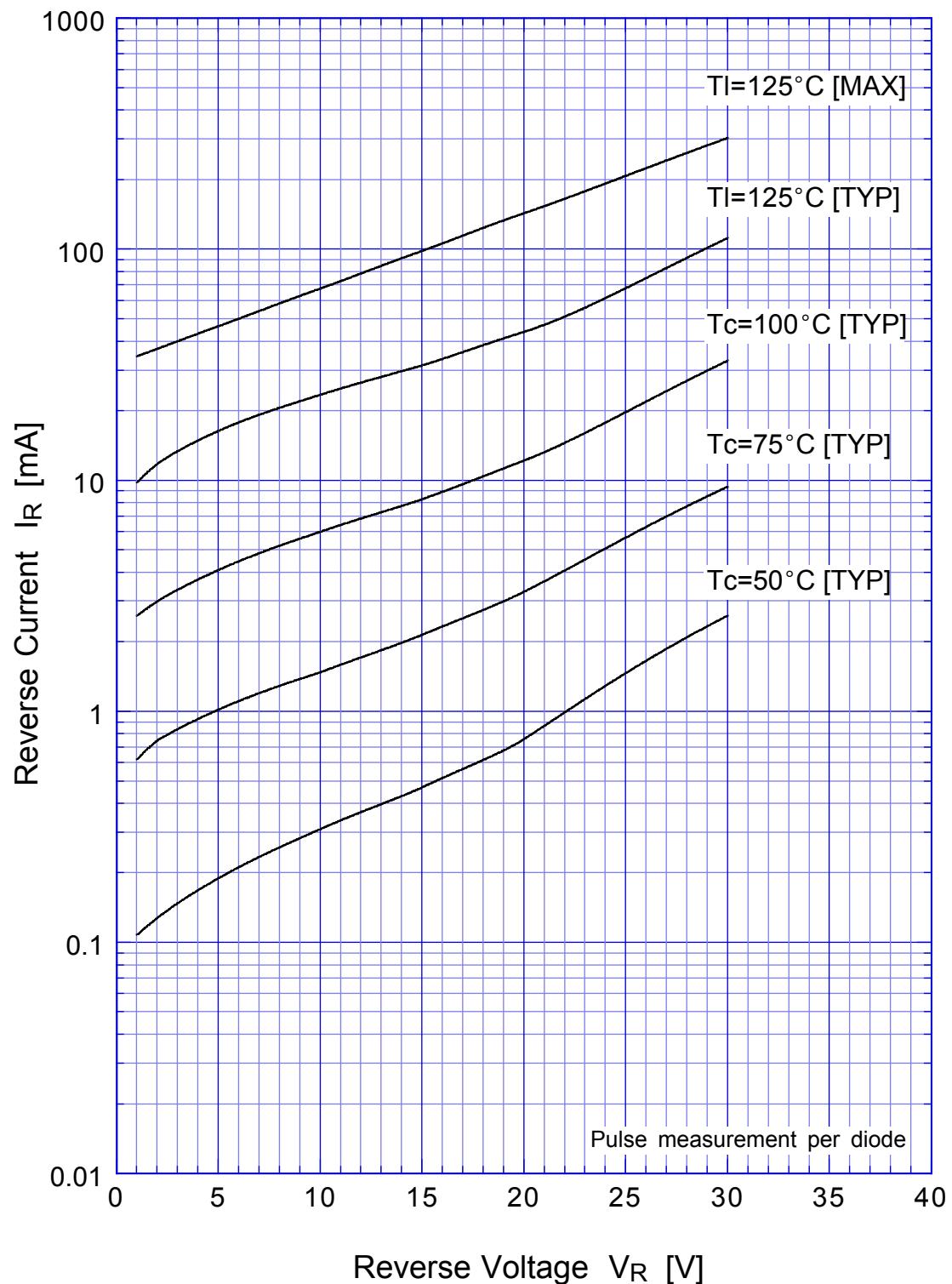
Forward Voltage

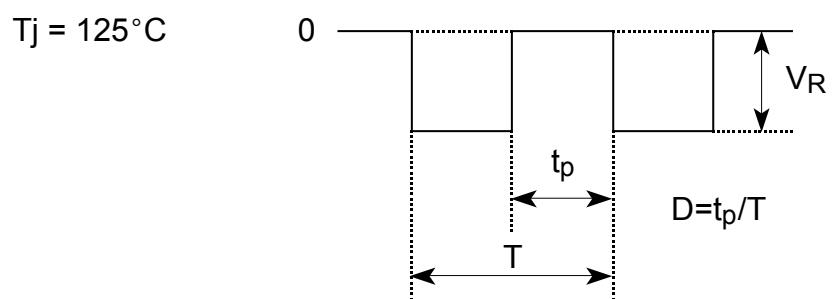
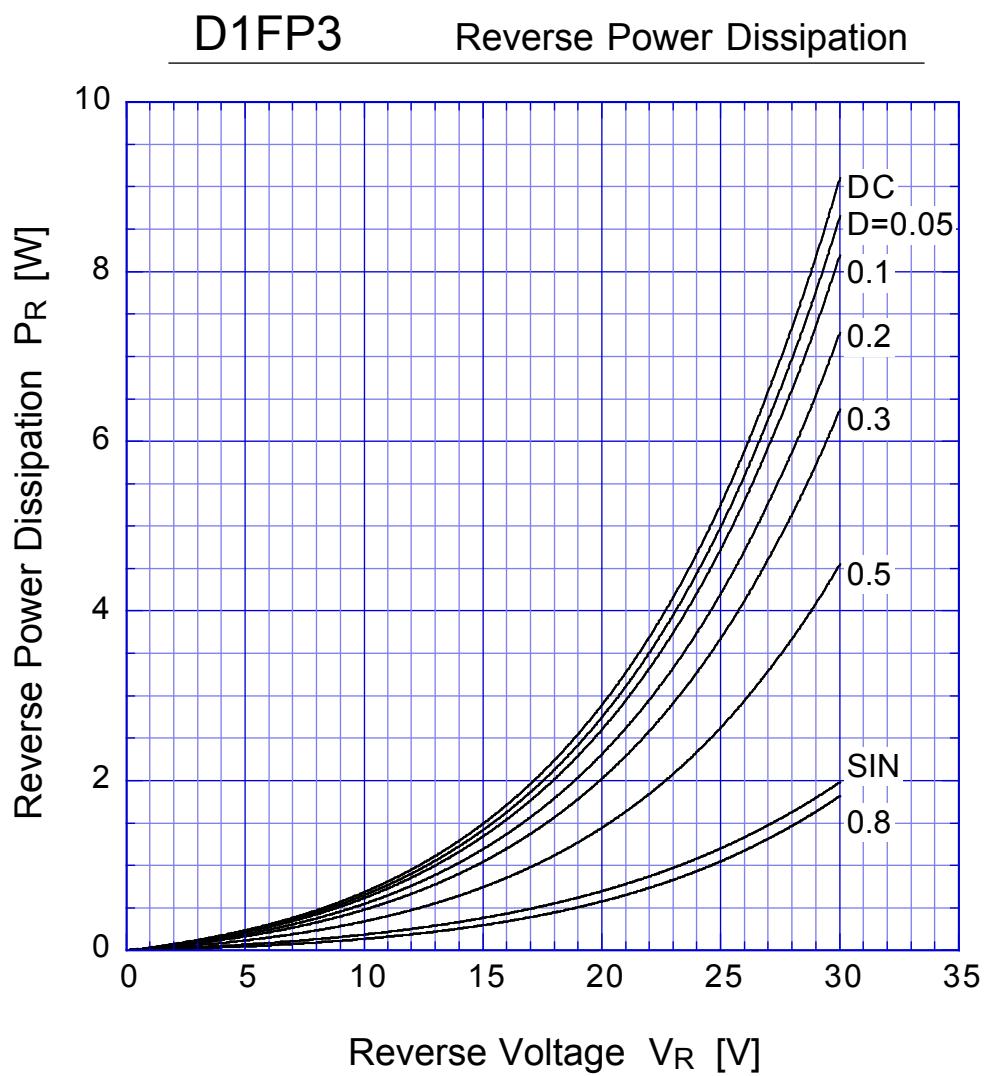




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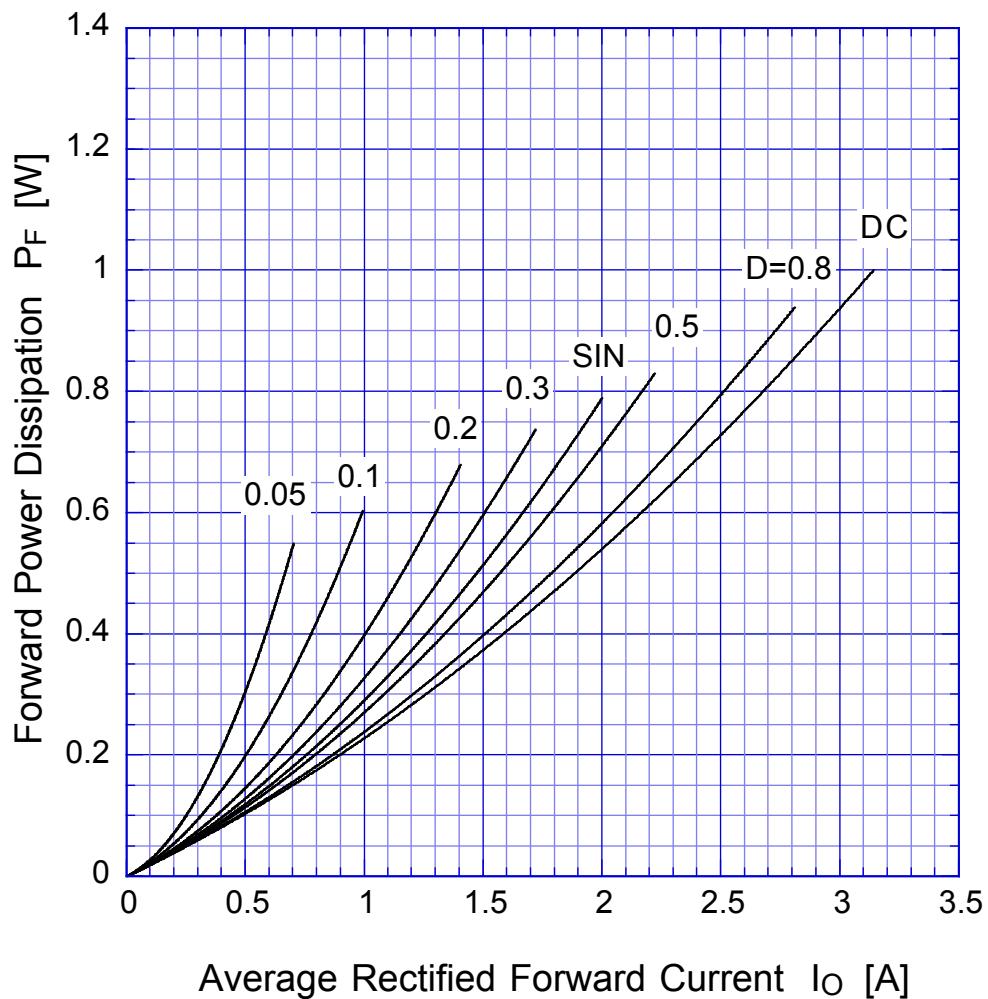
Reverse Current



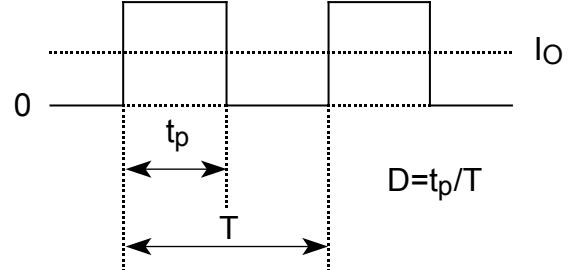


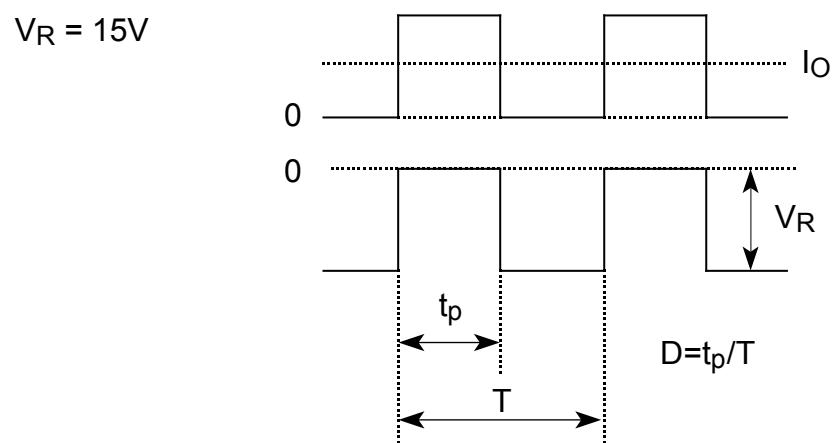
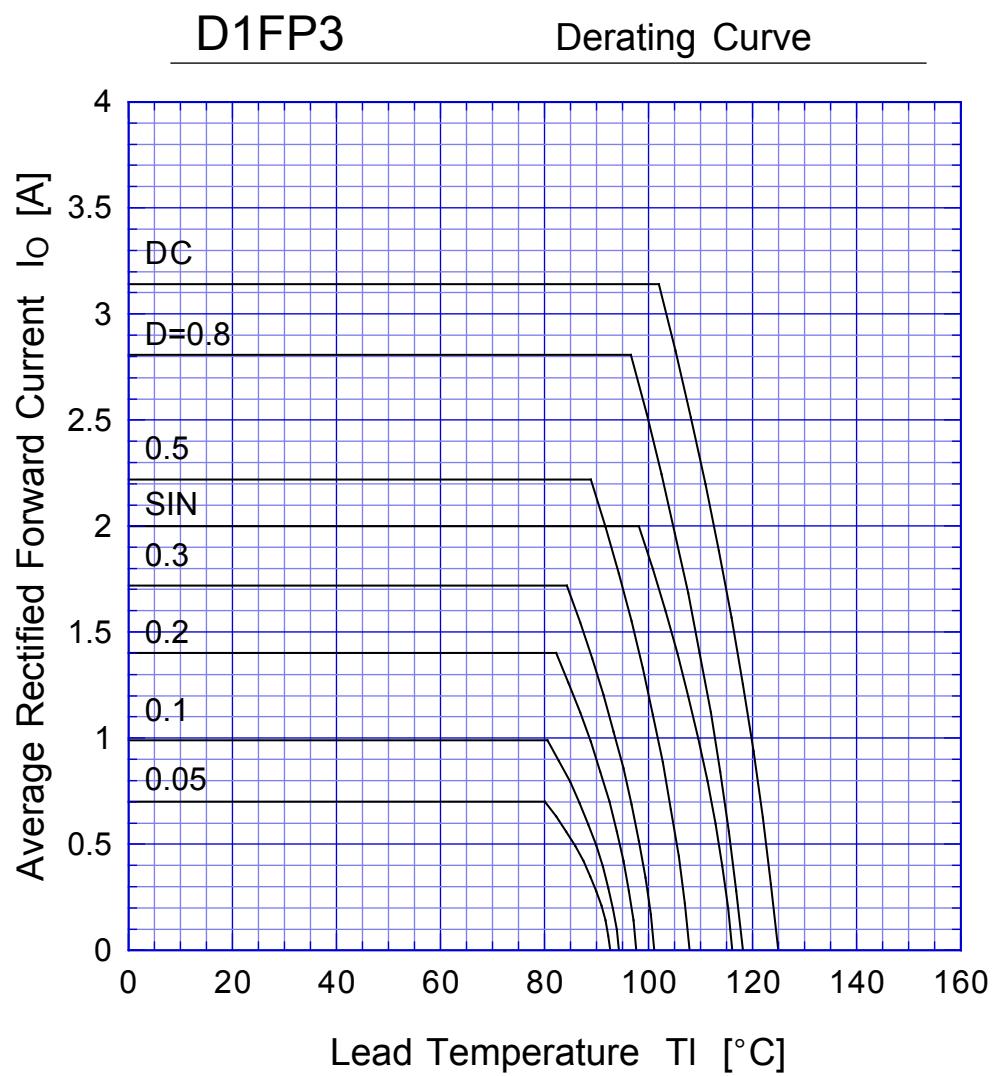
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Forward Power Dissipation



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





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Peak Surge Forward Capability

