

# SHINDENGEN

## Schottky Rectifiers (SBD)

Single

**D1FP3**

**30V 2A**

### FEATURES

Small SMT  
Super low  $V_F=0.4V$

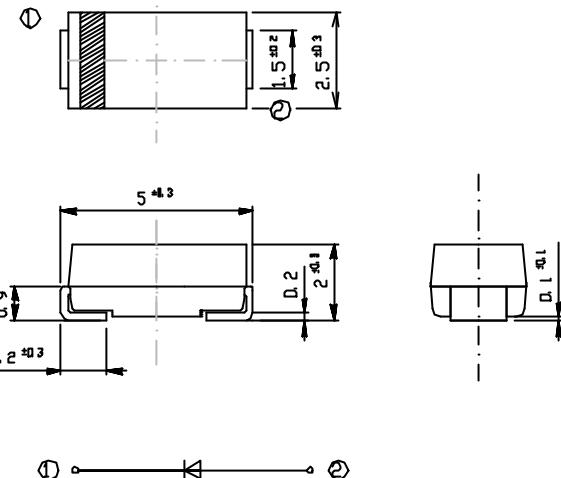
### APPLICATION

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  $T_I=25^\circ C$ )

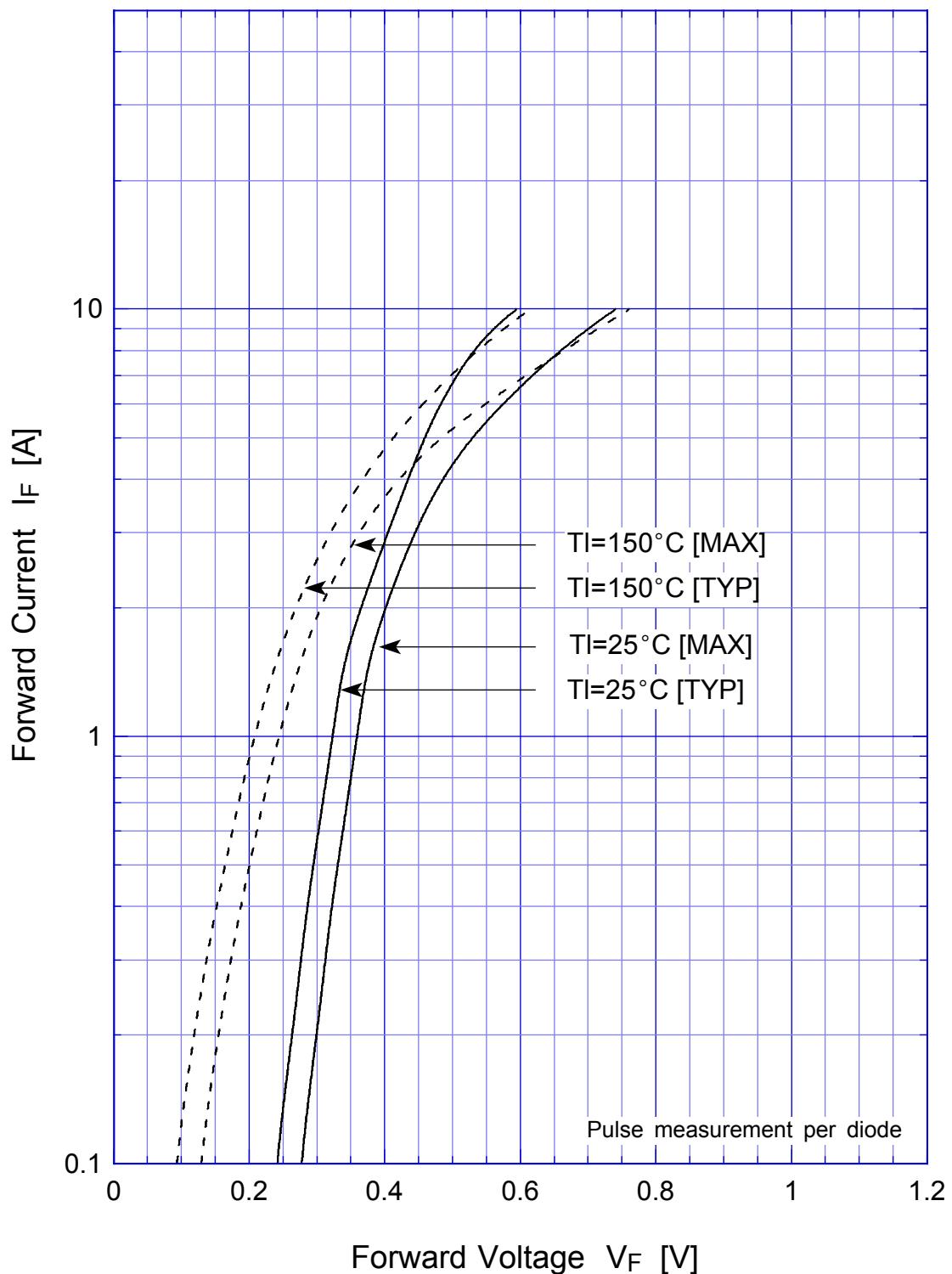
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{STG}$		-55 ~ 125	
Operating Junction Temperature	$T_J$		125	
Maximum Reverse Voltage	$V_{RM}$		30	V
Repetitive Peak Surge Reverse Voltage	$V_{RRSM}$	Pulse width 0.5ms, duty 1/40	35	V
Average Rectified Forward Current	$I_O$	50Hz sine wave, R-load, $T_I=98^\circ C$	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

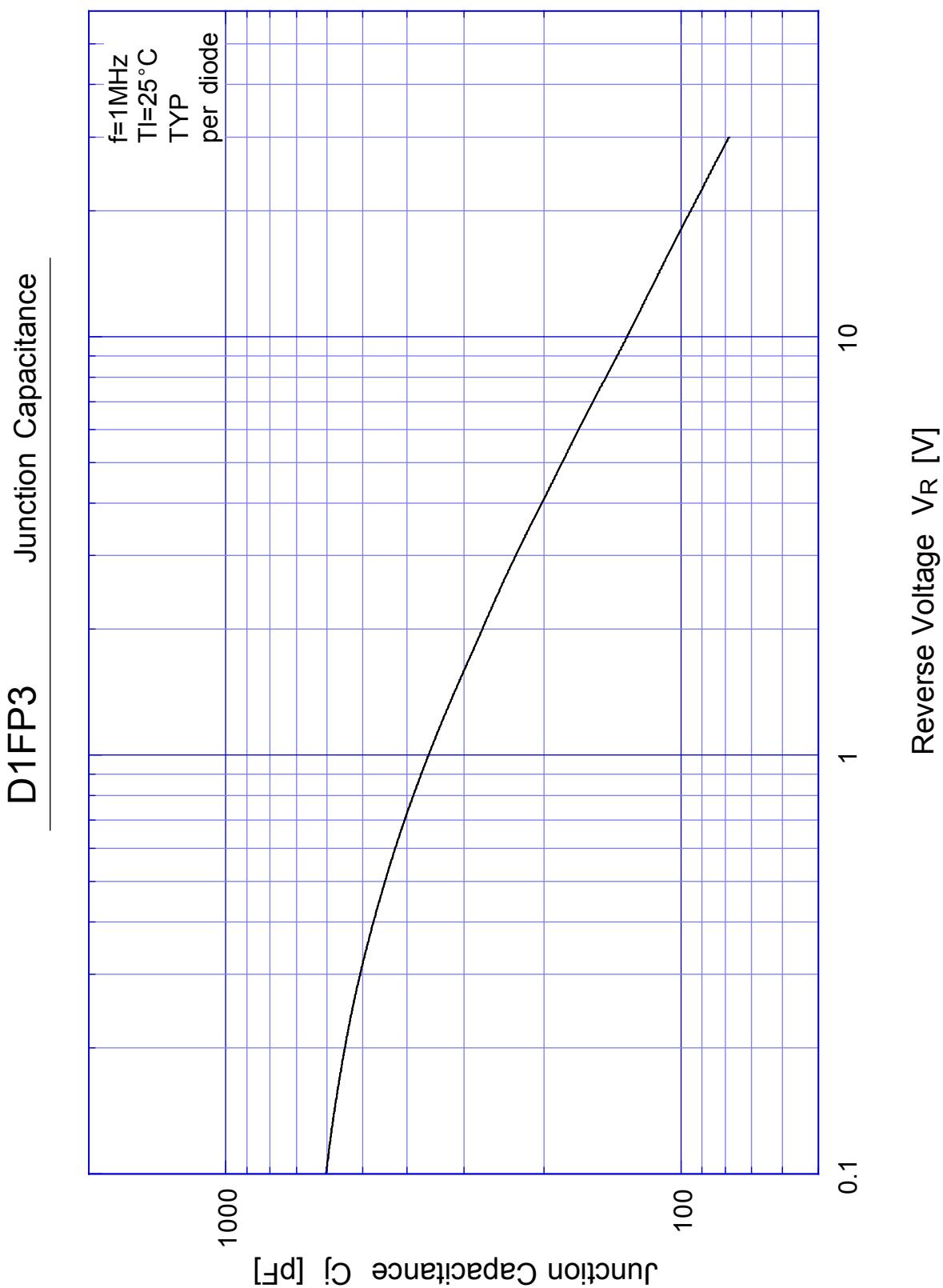
Electrical Characteristics (If not specified  $T_I=25^\circ C$ )

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	
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	$j_l$	junction to lead	Max.23	/W
	$j_a$	junction to ambient On alumina substrate	Max.108	
		junction to ambient On glass-epoxy substrate	Max.157	

# D1FP3

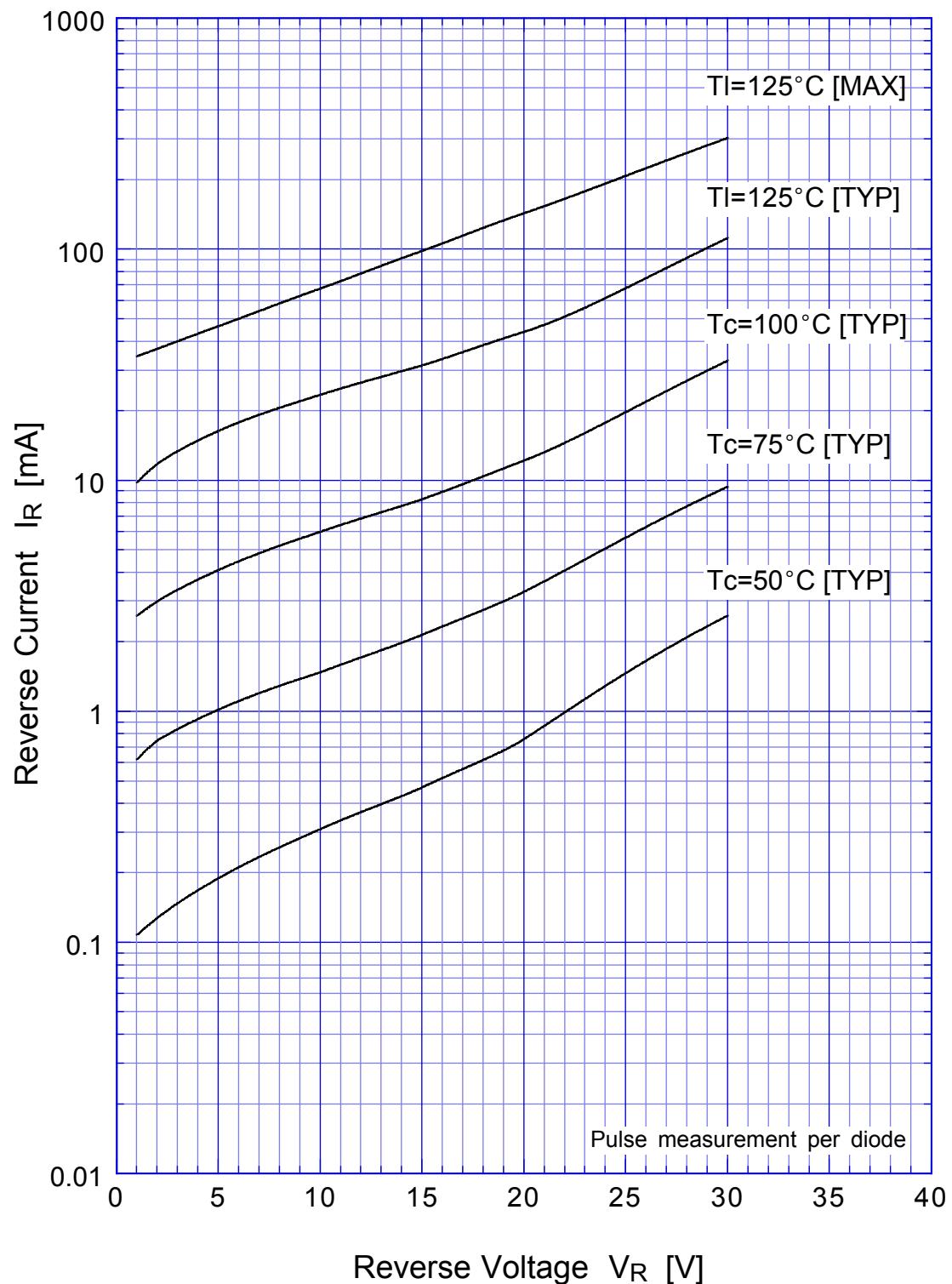
## Forward Voltage

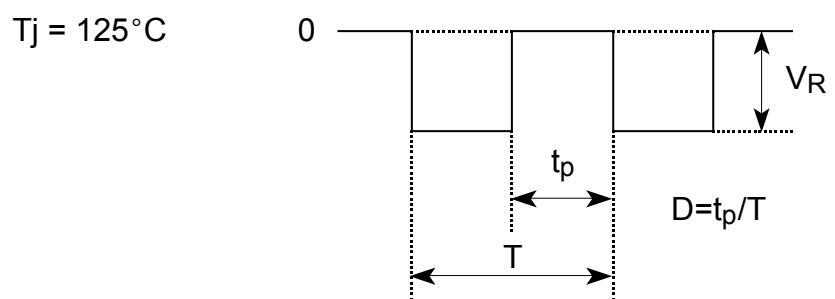
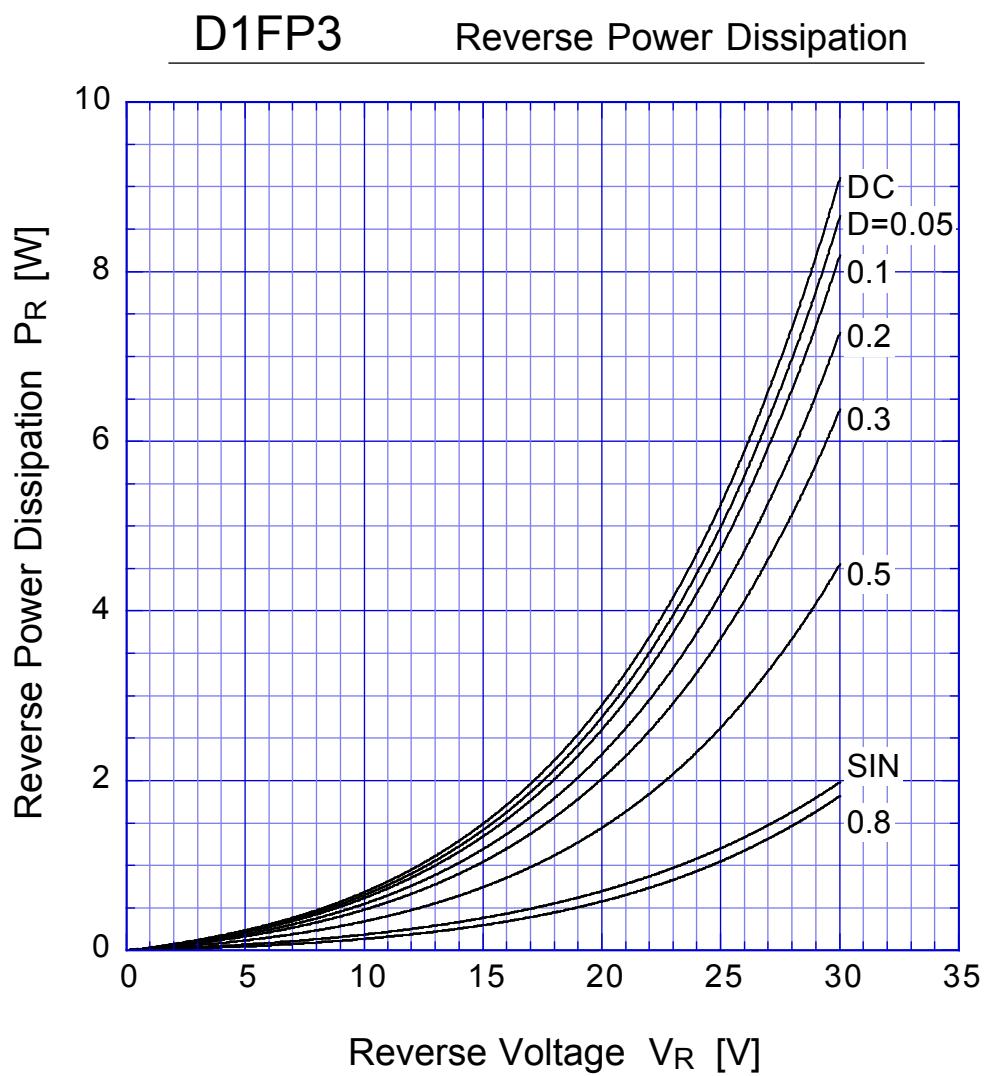




D1FP3

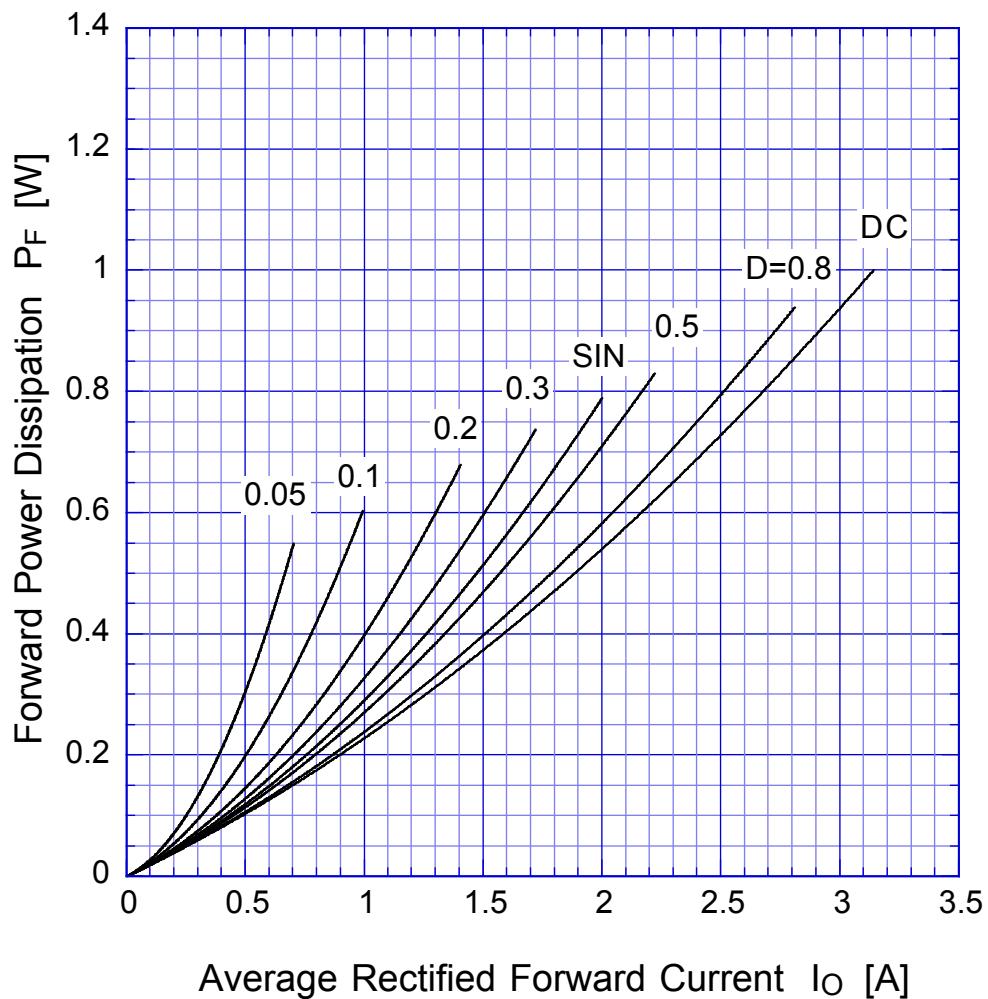
Reverse Current



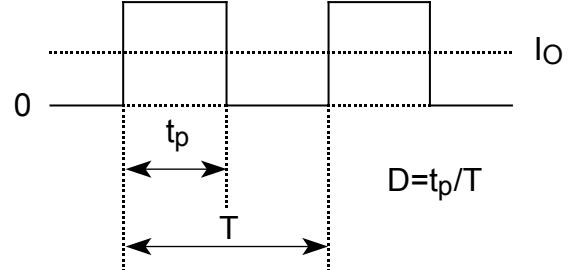


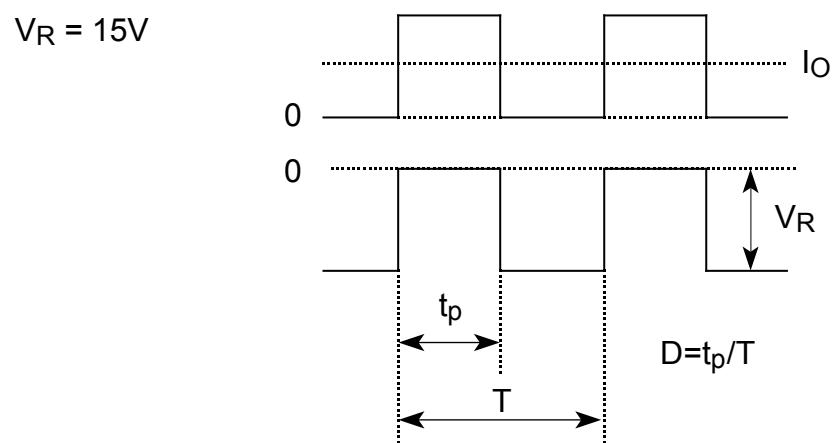
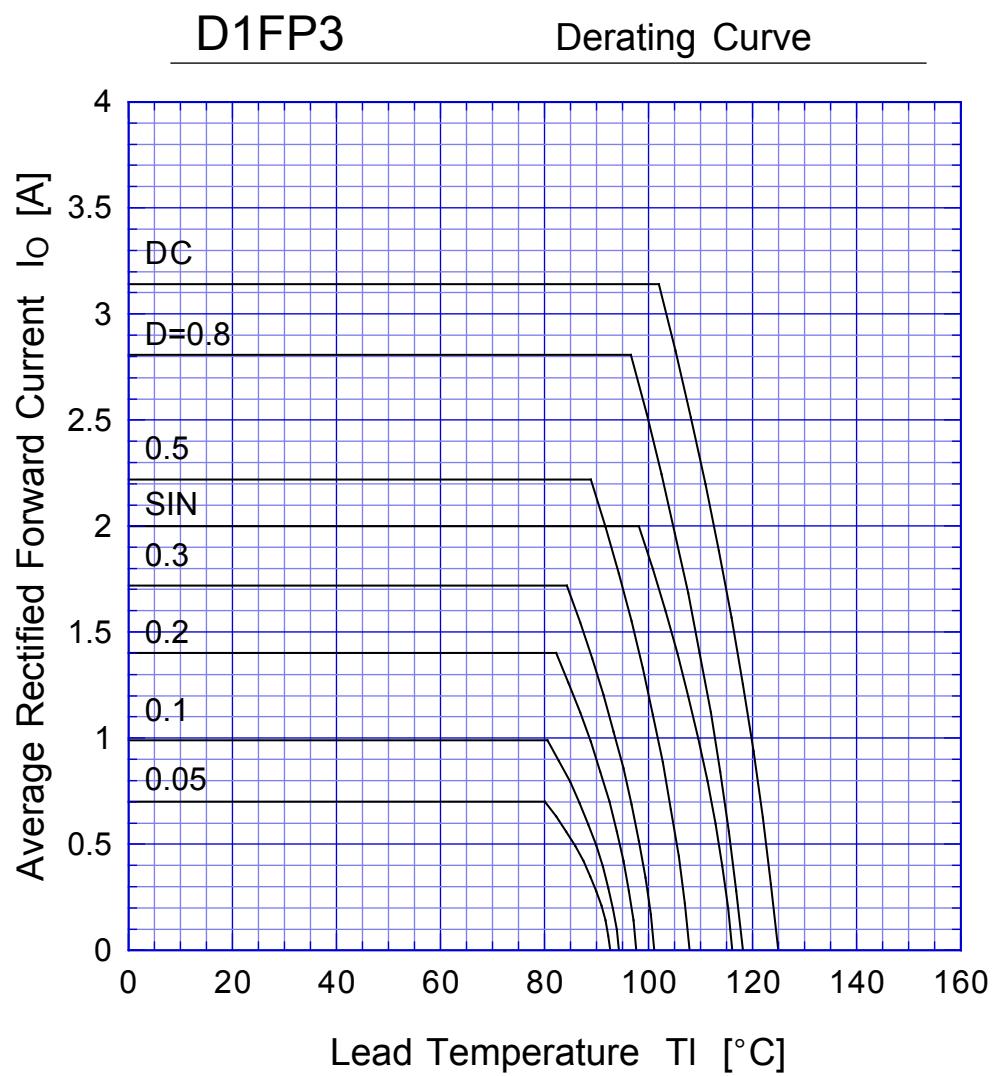
D1FP3

Forward Power Dissipation



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





D1FP3

Peak Surge Forward Capability

