

# SHINDENGEN

## General Purpose Rectifiers

Single

# D1F20

## 200V 1A

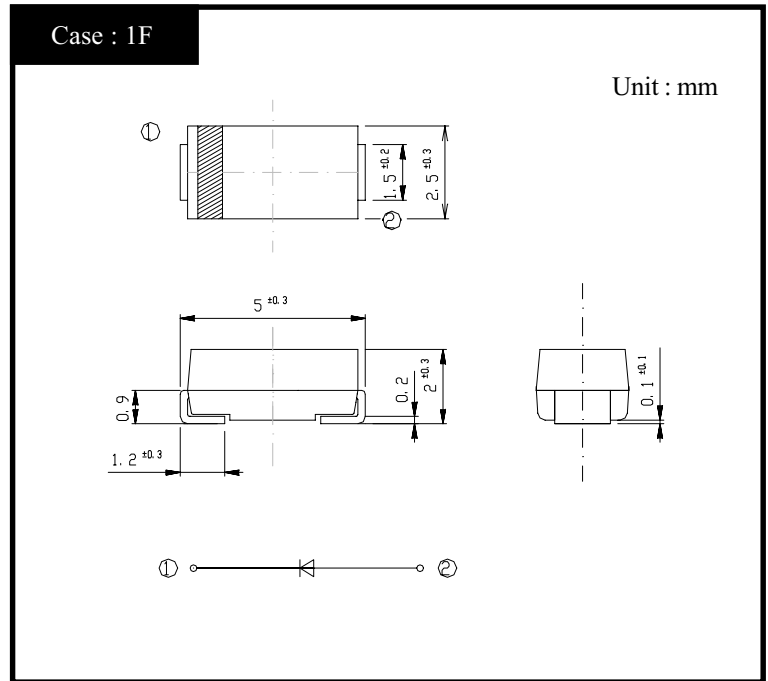
### FEATURES

- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

### APPLICATION

- Conventional Rectification
- Power source(Power Supply)
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

### OUTLINE DIMENSIONS



### RATINGS

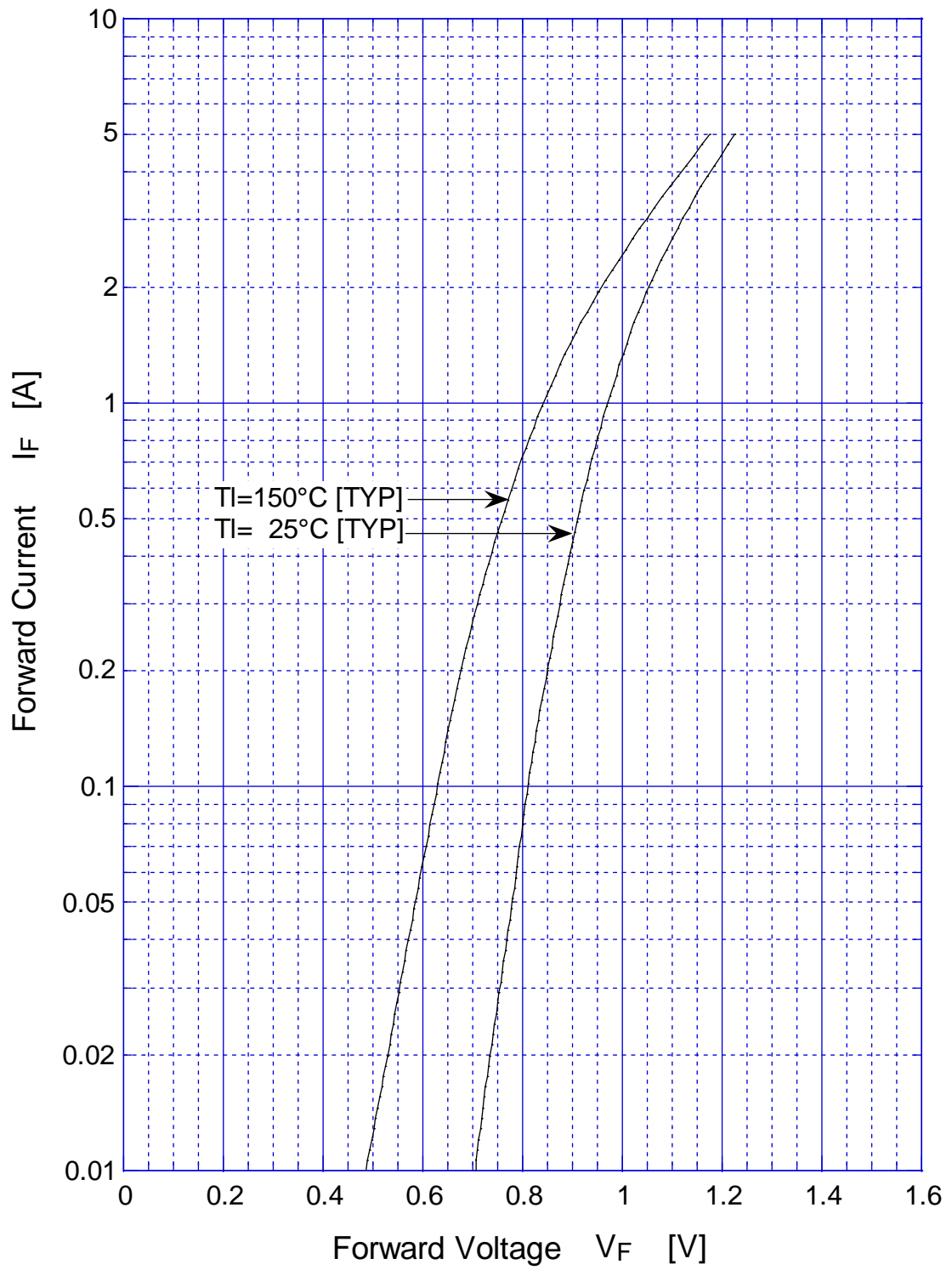
- Absolute Maximum Ratings (If not specified  $T_I=25^{\circ}\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-55 ~ 150	$^{\circ}\text{C}$
Operating Junction Temperature	$T_j$		150	$^{\circ}\text{C}$
Maximum Reverse Voltage	$V_{RM}$		200	V
Average Rectified Forward Current	$I_o$	50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$ On alumina substrate	1	A
		50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$ On glass-epoxy substrate	0.75	
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	25	A

- Electrical Characteristics (If not specified  $T_I=25^{\circ}\text{C}$ )

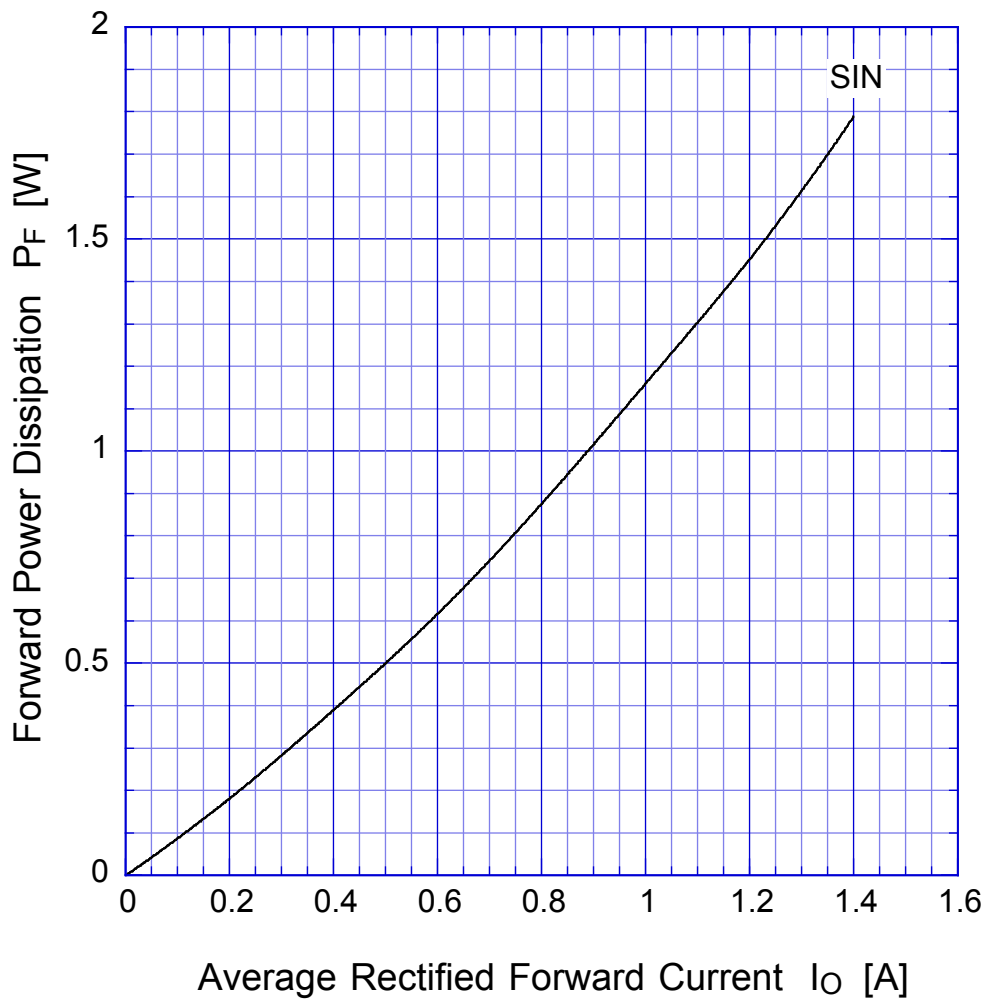
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=1\text{A}$ , Pulse measurement	Max.1.1	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement	Max.10	$\mu\text{A}$
Thermal Resistance	$\theta_{jl}$	junction to lead	Max.23	$^{\circ}\text{C}/\text{W}$
	$\theta_{ja}$	junction to ambient On alumina substrate	Max.108	
		junction to ambient On glass-epoxy substrate	Max.157	

# D1F x Forward Voltage



D1Fx

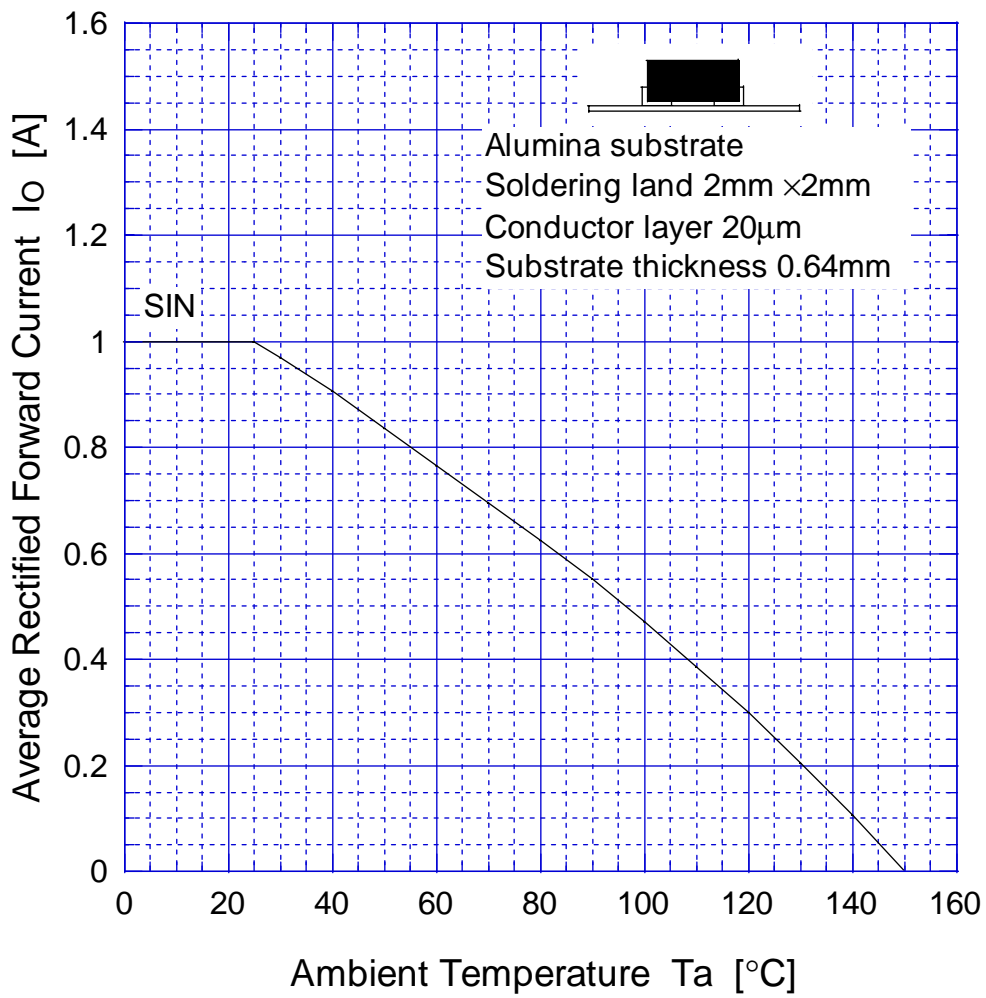
Forward Power Dissipation



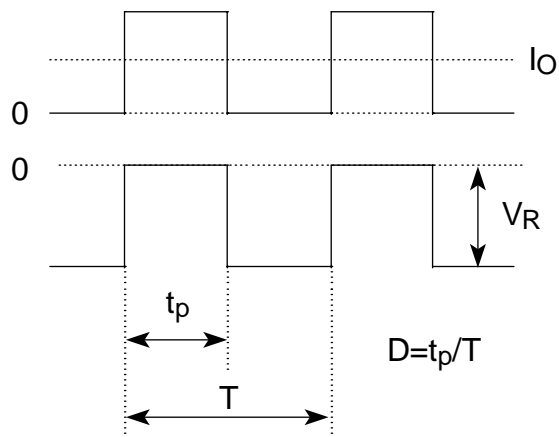
$T_j = 150^\circ\text{C}$   
Sine wave

# D1Fx

# Derating Curve

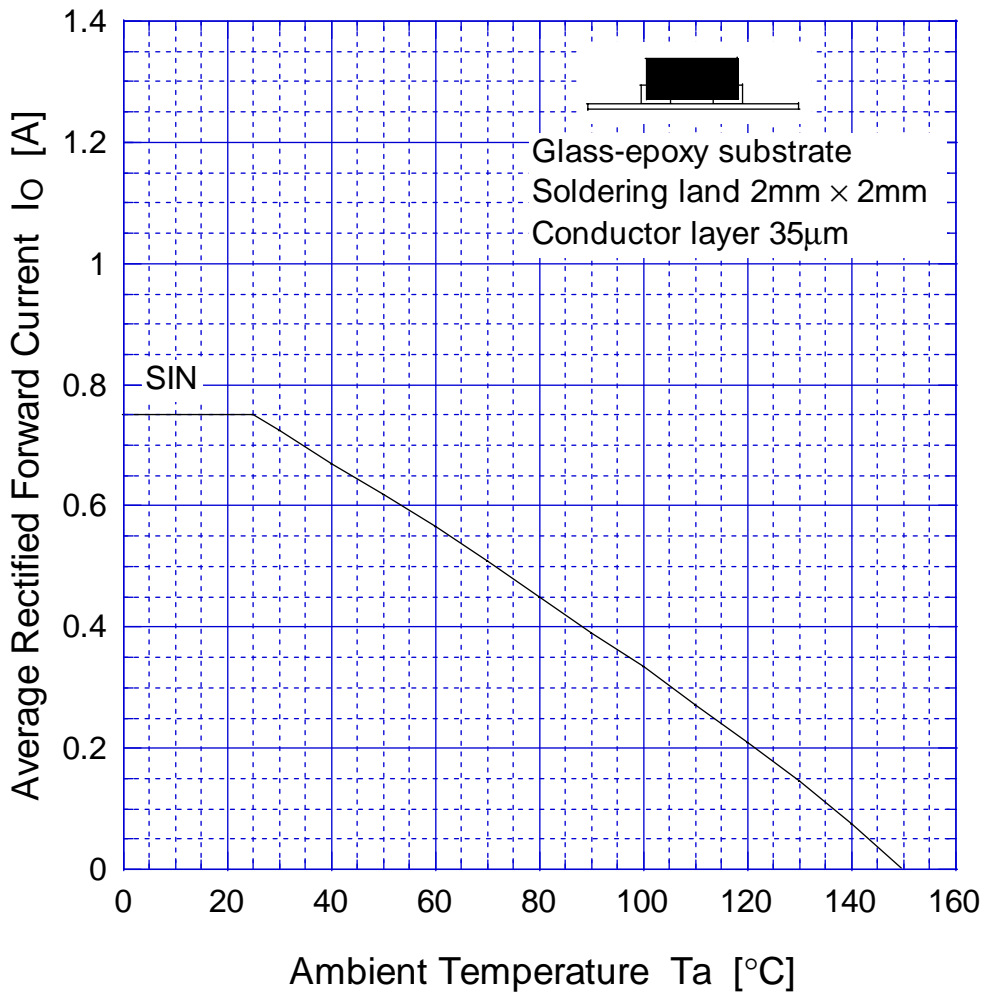


$$V_R = V_{RM}$$

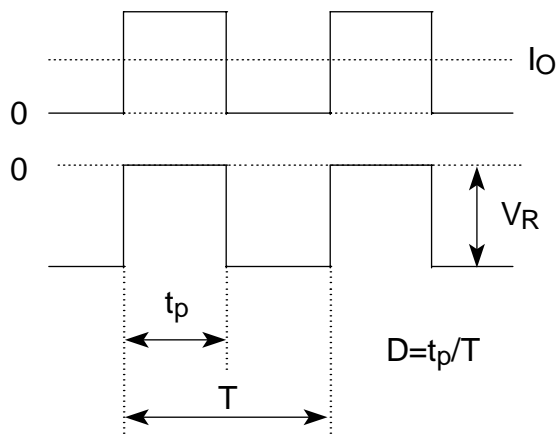


# D1Fx

# Derating Curve



$V_R = V_{RM}$   
Sine wave  
R-load  
Free in air



# D1Fx

## Peak Surge Forward Capability

