

# SHINDENGEN

## General Purpose Rectifiers

DIL Bridges

# S1YB20

**200V 0.4A**

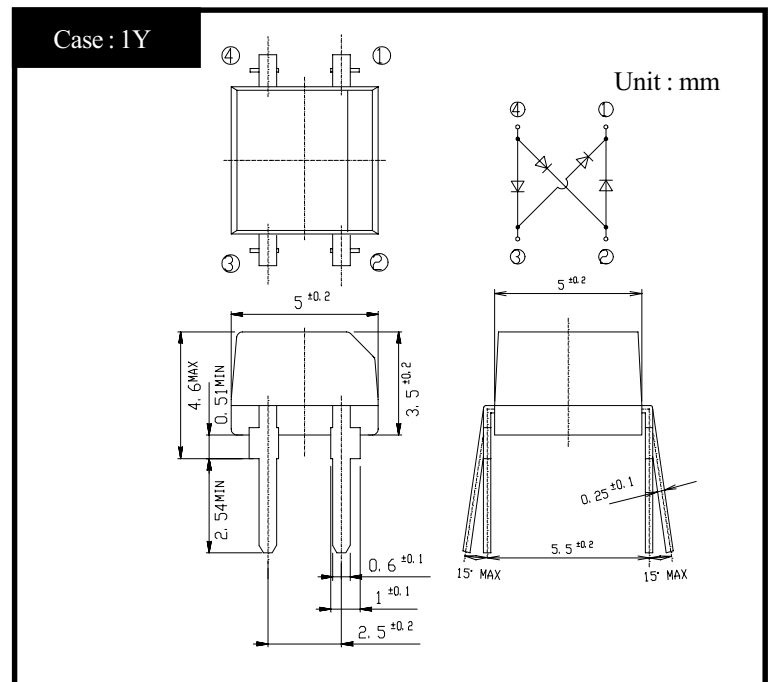
### FEATURES

- Small Dual In-Line (:DIL) Package
- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

### APPLICATION

- Switching power supply
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

### OUTLINE DIMENSIONS



### RATINGS

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

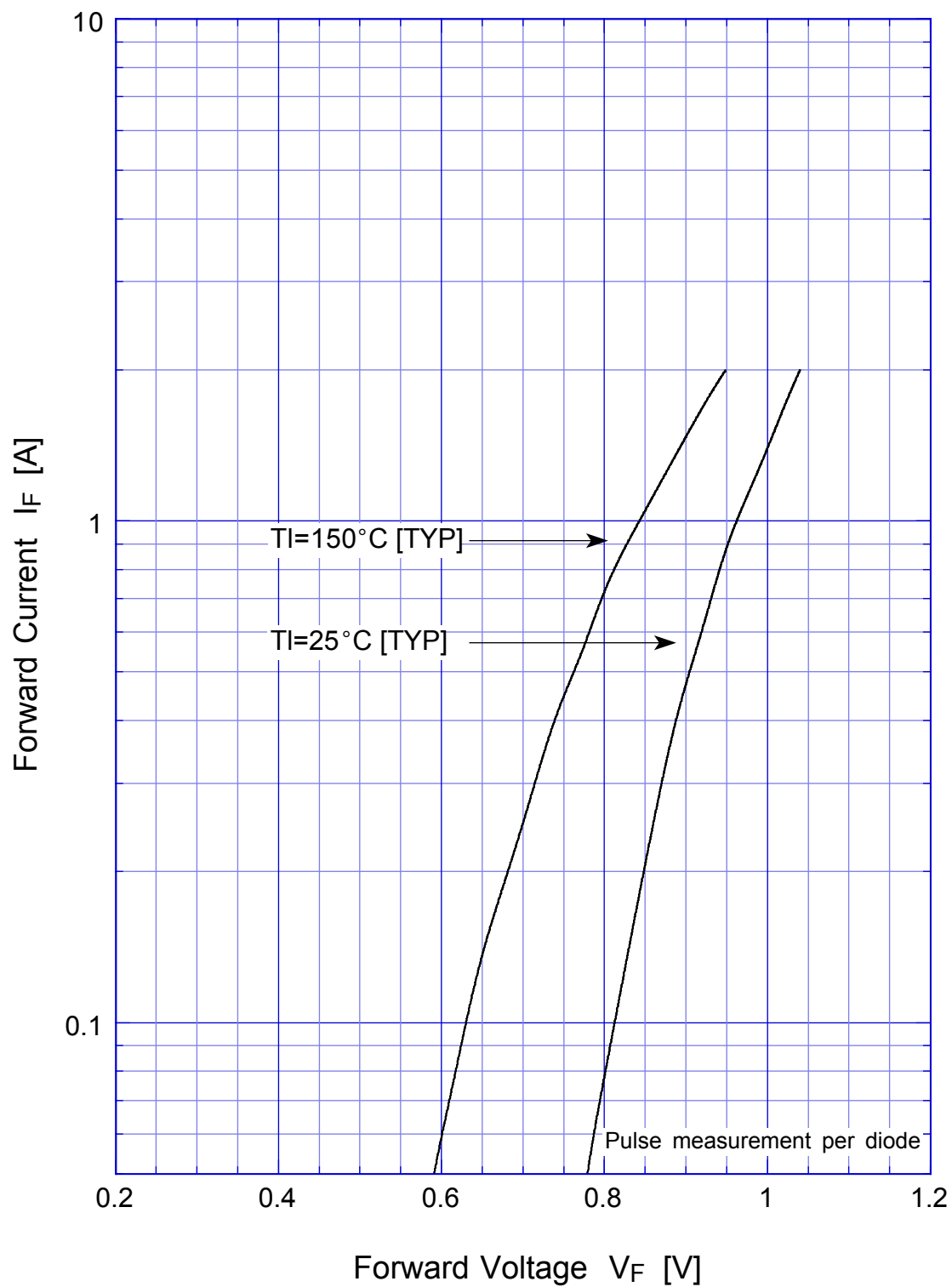
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-40~150	$^{\circ}\text{C}$
Operating Junction Temperature	$T_j$		150	$^{\circ}\text{C}$
Maximum Reverse Voltage	$V_{RM}$		200	V
Average Rectified Forward Current	$I_O$	50Hz sine wave, R-load, $T_a=40^{\circ}\text{C}$	0.4	A
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	30	A
Current Squared Time	$I^2t$	$1\text{ms} \leq t < 10\text{ms}$ $T_j=25^{\circ}\text{C}$	4.5	$\text{A}^2\text{s}$

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_F$	$I_F=0.2\text{A}$ , Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	$I_R$	$V_R=V_{RM}$ , Pulse measurement, Rating of per diode	Max.10	$\mu\text{A}$
Thermal Resistance	$\theta_{jl}$	junction to lead	Max.20	$^{\circ}\text{C}/\text{W}$
	$\theta_{ja}$	junction to ambient	Max.150	

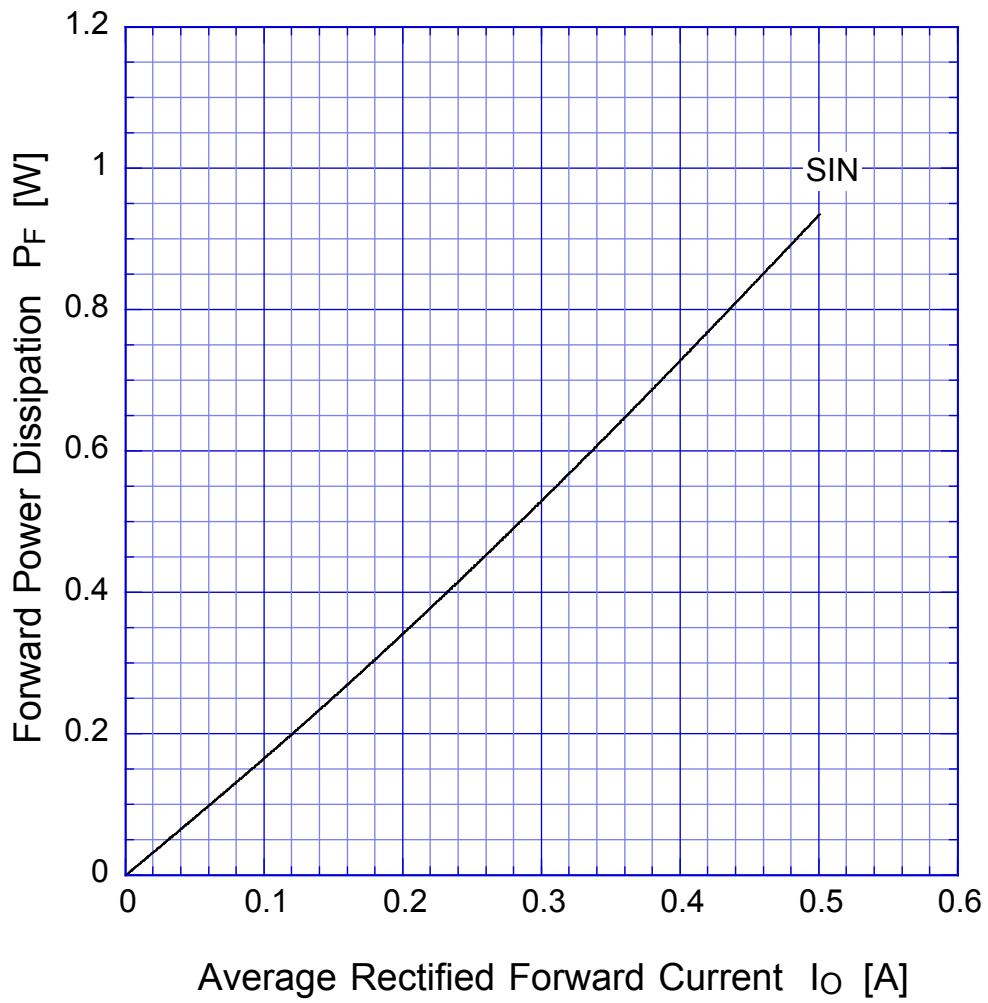
S1YBx

Forward Voltage



S1YBx

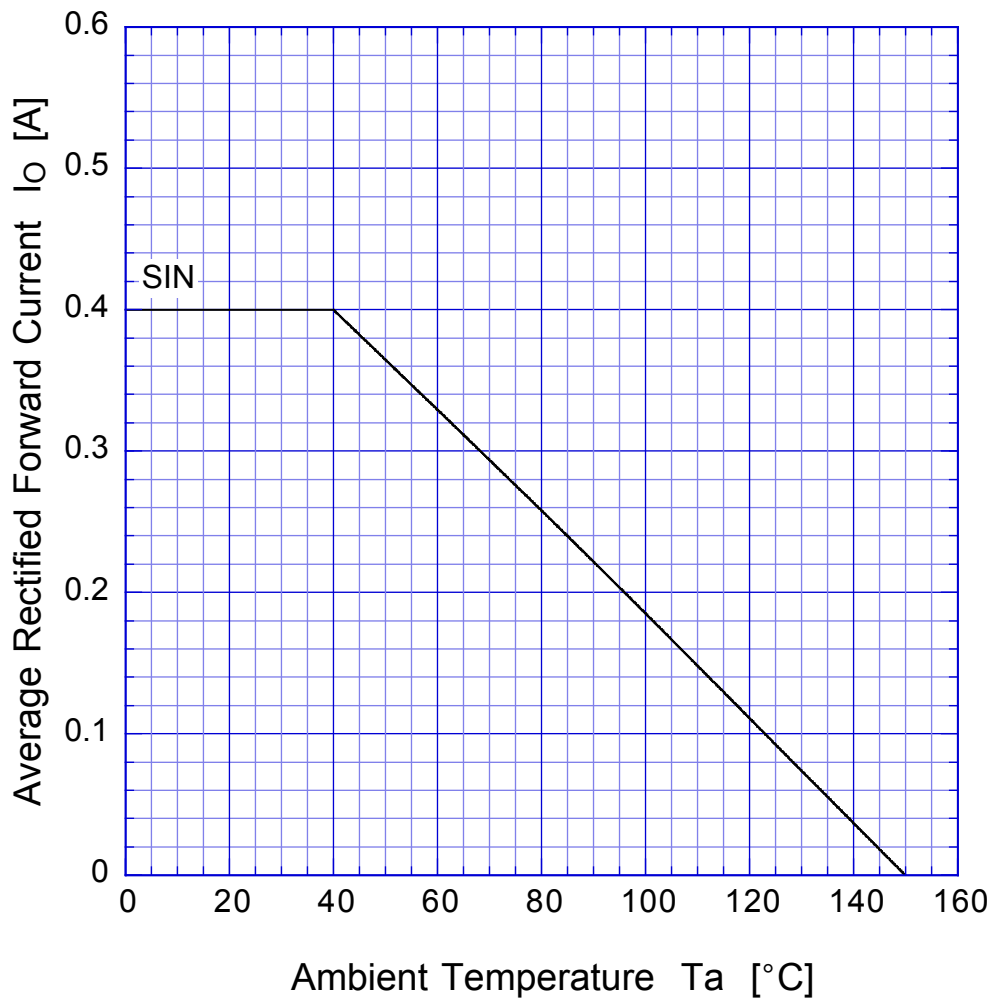
Forward Power Dissipation



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

S1YBx

Derating Curve



Sine wave  
R-load  
Free in air

# S1YBx

## Peak Surge Forward Capability

