

# SHINDENGEN

Bridge Diode

Square In-line Package

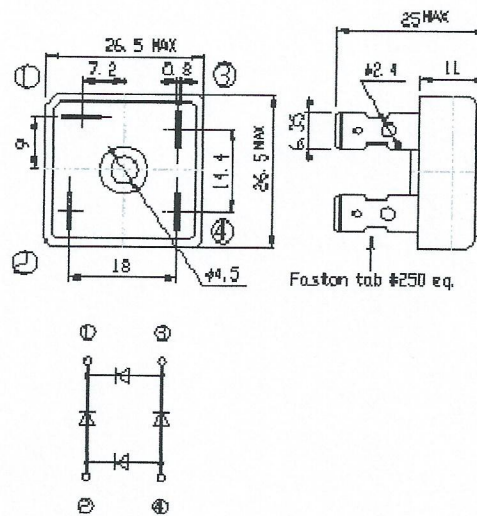
**S15VB60**

**600V 15A**

## OUTLINE DIMENSIONS

Case : S15VB

Unit : mm



## RATINGS

### • Absolute Maximum Ratings

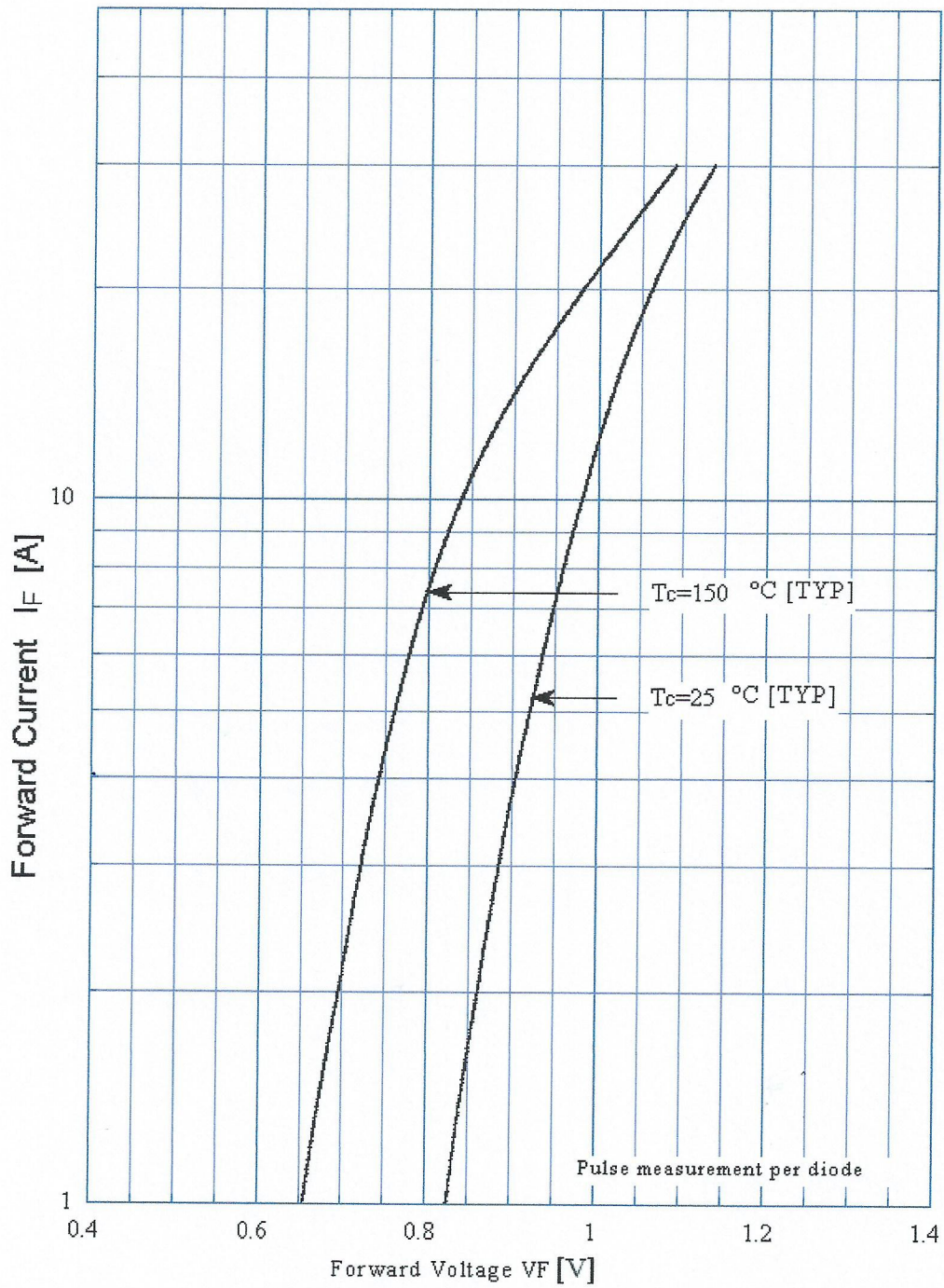
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-40 ~ 150	°C
Operating Junction Temperature	$T_j$		150	°C
Maximum Reverse Voltage	$V_{RM}$		600	V
Average Rectified Forward Current	$I_O$	50Hz sine wave, R-load With heatsink, $T_c=83^\circ\text{C}$	1.5	A
		50Hz sine wave, R-load Without heatsink, $T_a=40^\circ\text{C}$	4.5	
Peak Surge Forward Current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	200	A
Current Squared Time	$I^2t$	$2\text{ms} \leq t < 10\text{ms}$ $T_c=25^\circ\text{C}$	200	$\text{A}^2 \cdot \text{s}$
Dielectric Strength	$V_{dis}$	Terminals to case, AC 1 minute	2 k	V
Mounting Torque	TOR	(Recommended torque : 1N · m)	2 N · m	

### • Electrical Characteristics ( $T_c=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	$V_f$	$I_f=7.5\text{A}$ , 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	$\theta_{jc}$	junction to case	Max.2.3	°C/W

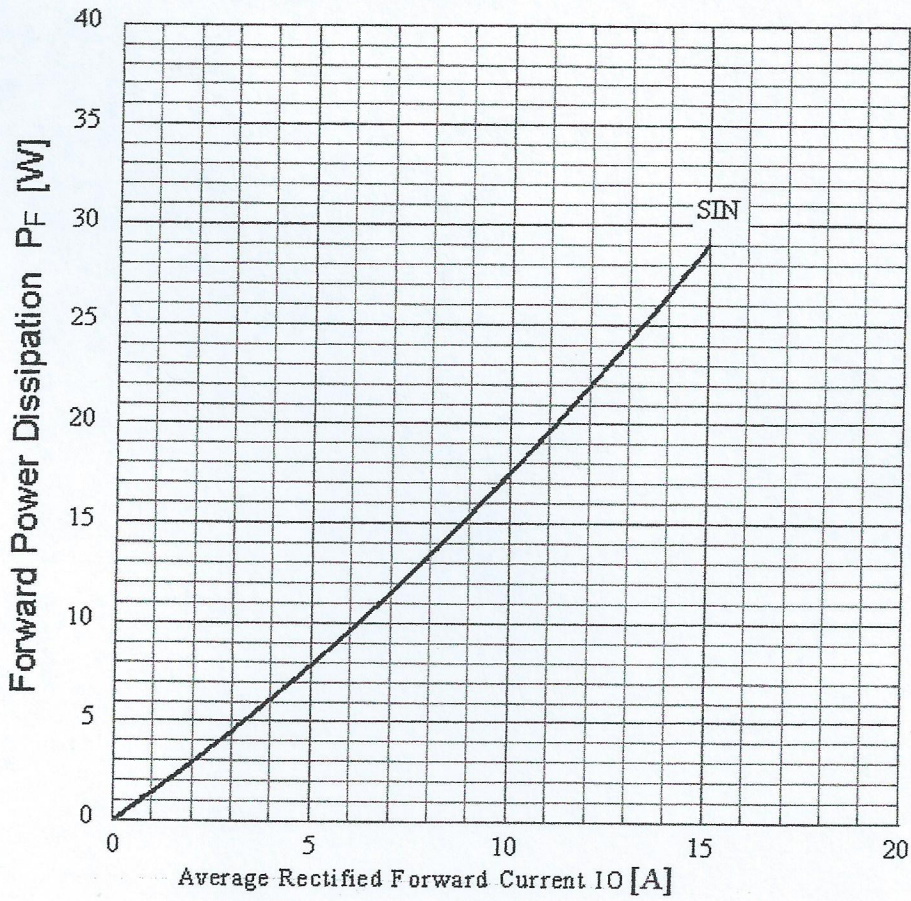
S15VBx

Forward Voltage



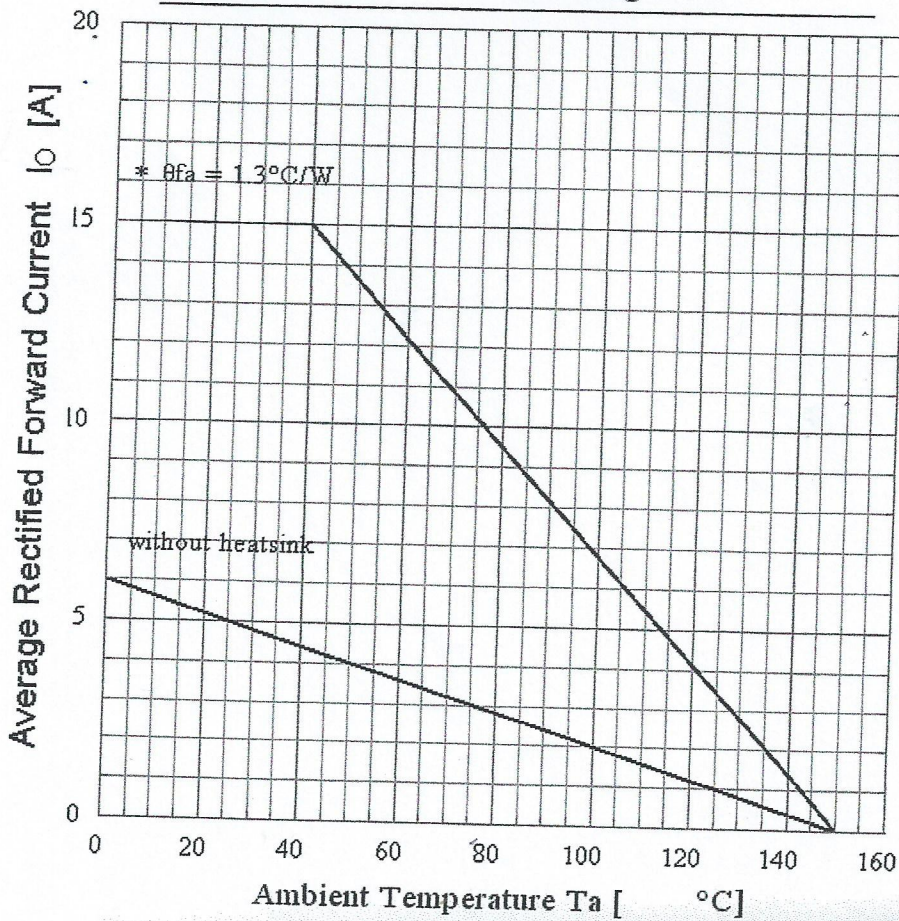
# S15VBx

## Forward Power Dissipation



# S15VBx

## Derating Curve



S15VBx

Peak Surge Forward Capability

