SHINDENGEN

General Purpose Rectifiers

SIL Bridges

D2SB80

800V 1.5A

FEATURES

- Thin Single In-Line Package
- High IFSM
- Applicable to Automatic Insertion

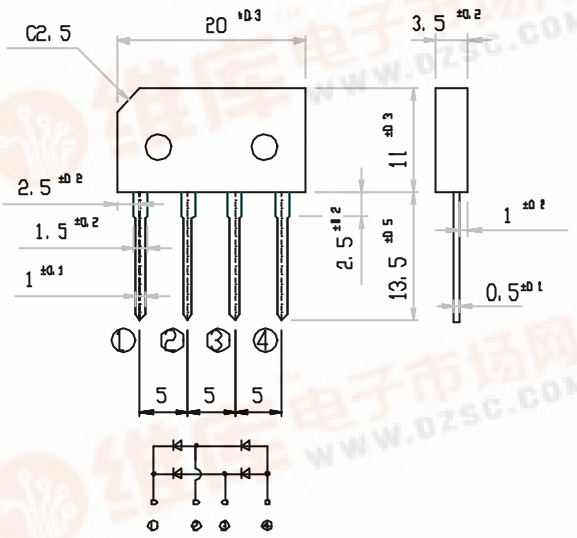
APPLICATION

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

OUTLINE DIMENSIONS

Case : 2S

Unit : mm



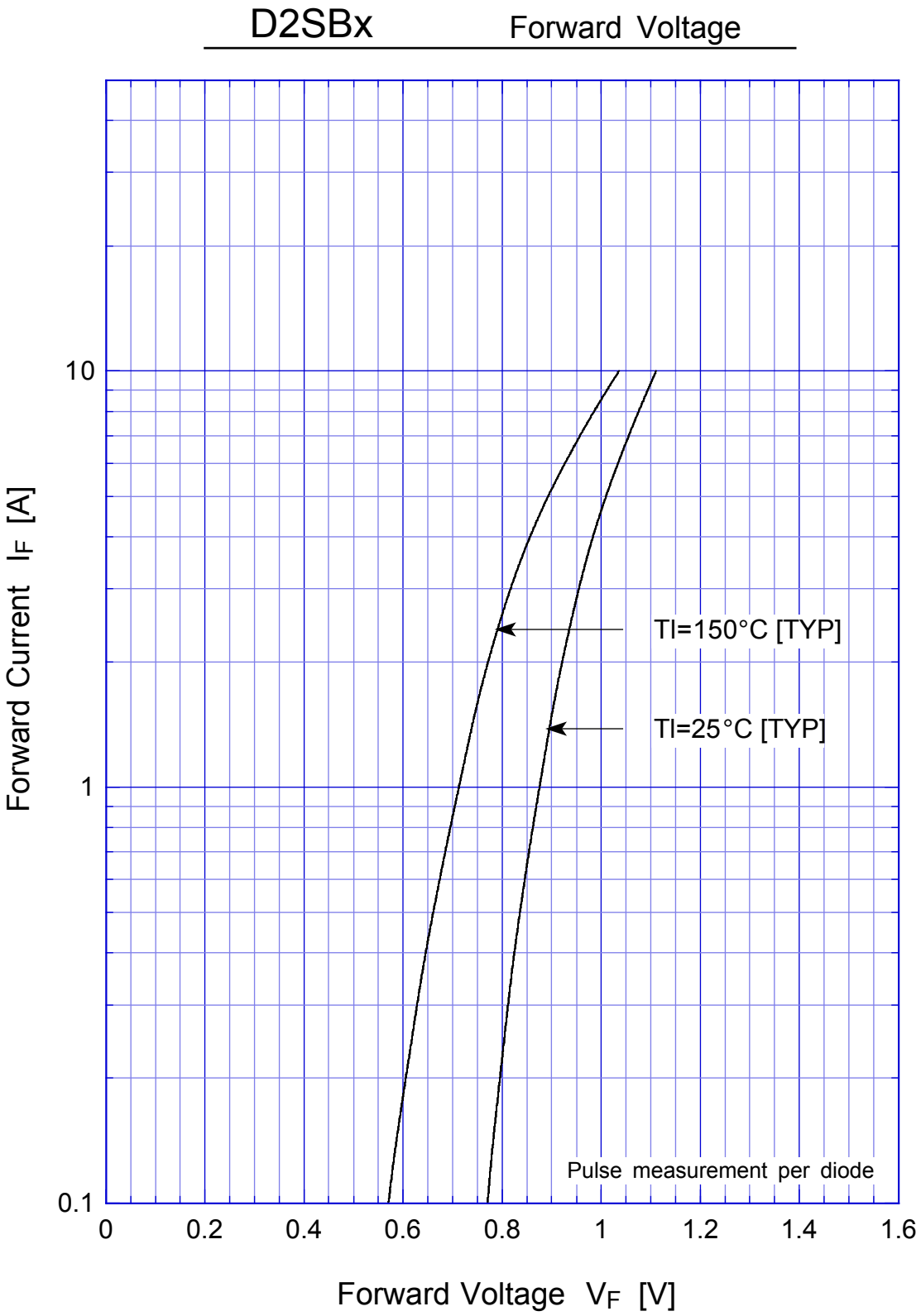
RATINGS

● Absolute Maximum Ratings (If not specified Tl=25°C)

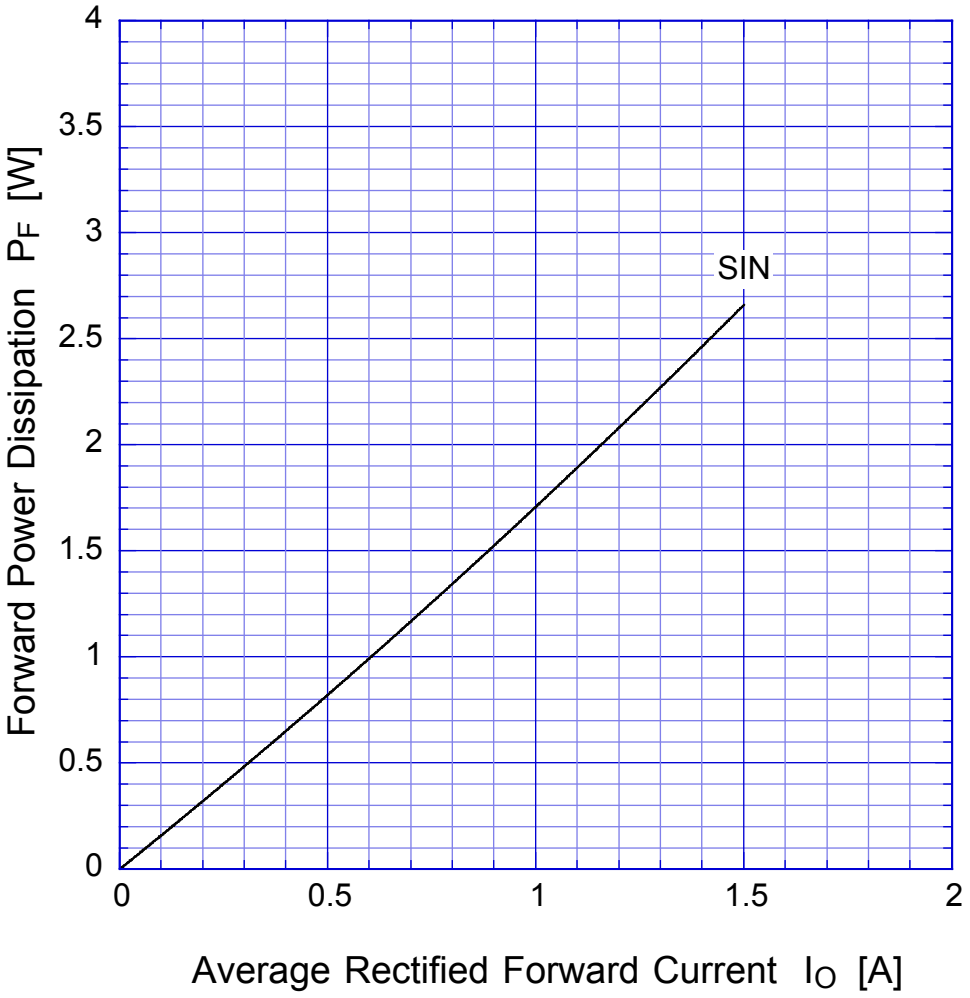
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		800	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25°C	1.5	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 °C	80	A
Current Squared Time	I^2t	2ms≦t＜10ms Tj=25°C	32	A^2s

● Electrical Characteristics (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	IF=0.75A, 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	μA
Thermal Resistance	θ jl	junction to lead	Max.10	°C/W
	θ ja	junction to ambient	Max.47	

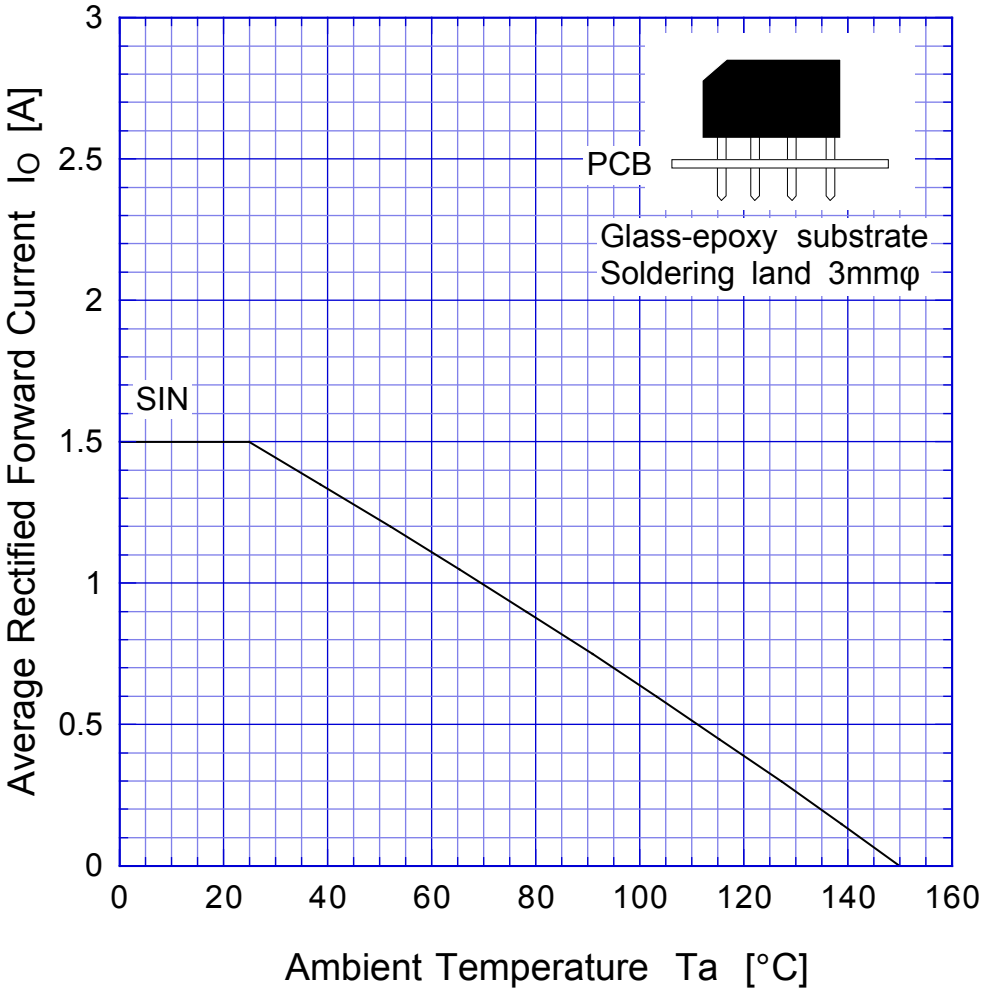

D2SBx
Forward Voltage
Forward Current IF [A]
10
1
0.1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Forward Voltage VF [V]
Tl=150°C [TYP]
Tl=25°C [TYP]
Pulse measurement per diode

D2SBx Forward Power Dissipation



Tj = 150°C
Sine wave

D2SBx Derating Curve



Sine wave
R-load
Free in air

D2SBx Peak Surge Forward Capability