

# S20WB80

## Bridge Diodes

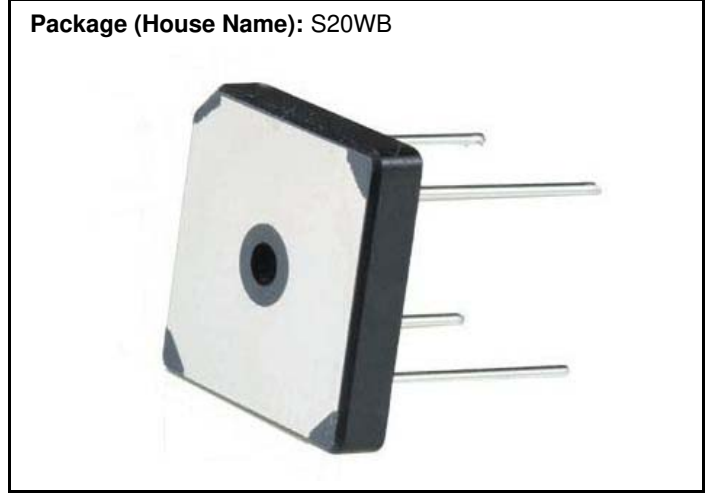
800V, 20A

### Feature

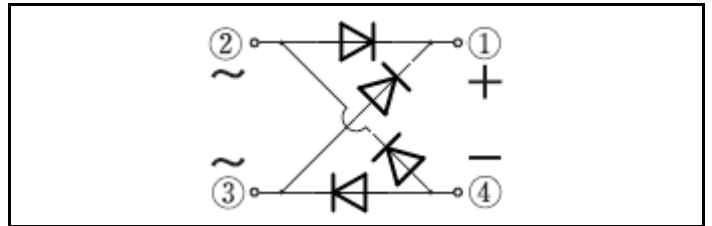
- Input/Output In-line
- UL E142422
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): S20WB



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : --25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T <sub>stg</sub>		-40 to 150	°C
Junction temperature	T <sub>j</sub>		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		800	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, With heatsink, T <sub>c</sub> =76°C	20	A
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, Without heatsink, T <sub>a</sub> =25°C	4.5	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, T <sub>j</sub> =25°C	500	A
Current squared time	I <sup>2</sup> t	1ms ≤ t < 10ms, T <sub>j</sub> =25°C, per diode	800	A <sup>2</sup> s
Dielectric strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 1N·m)	2	N·m

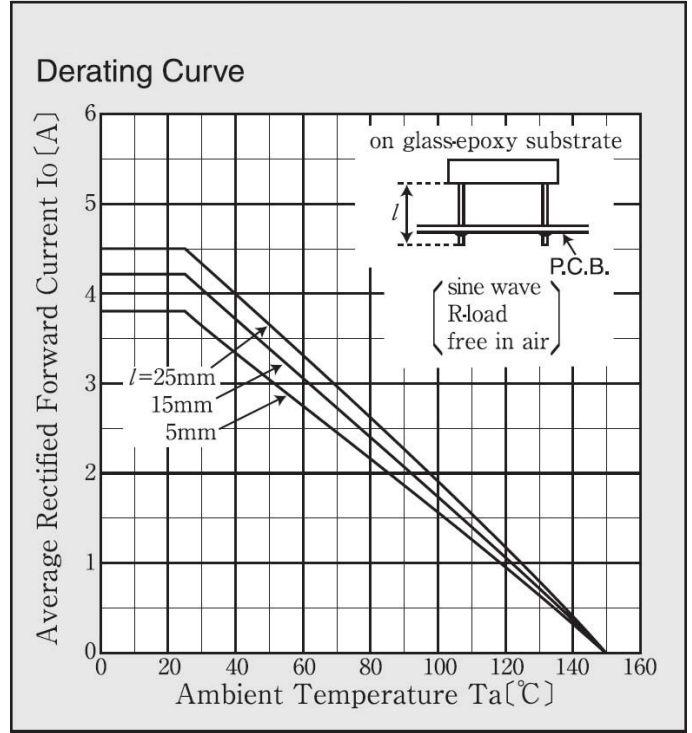
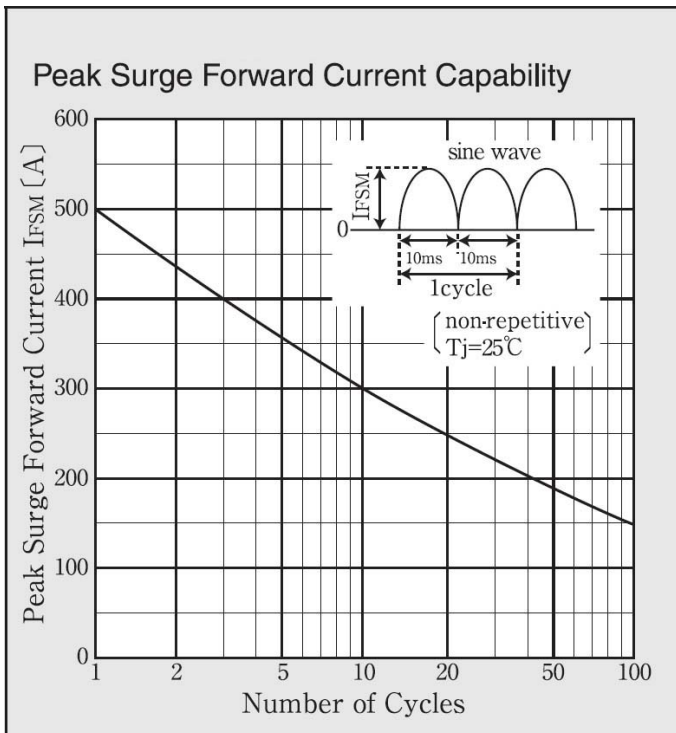
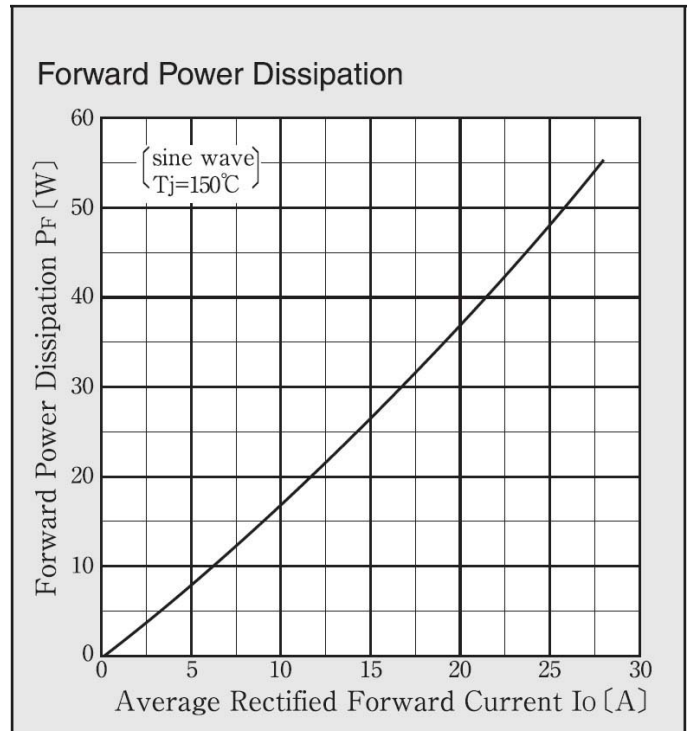
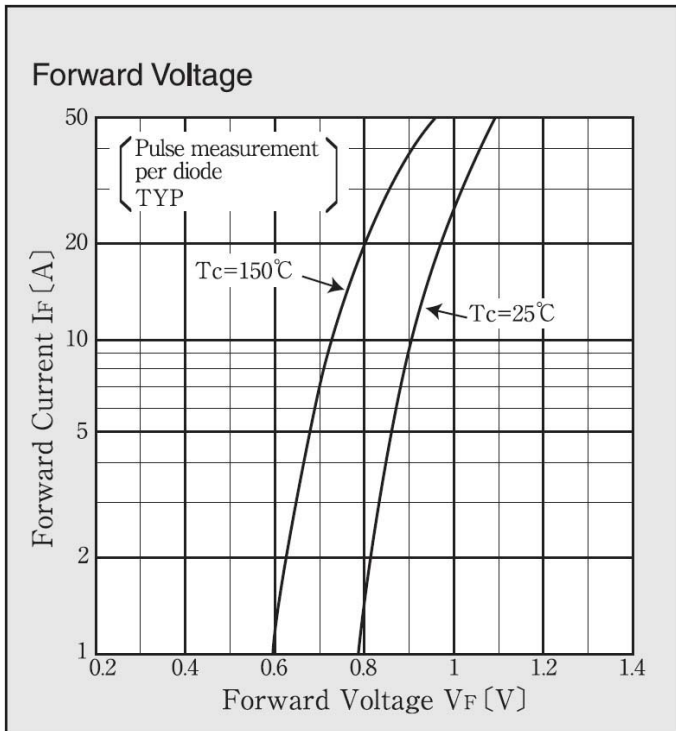
\* : See the original Specifications

**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

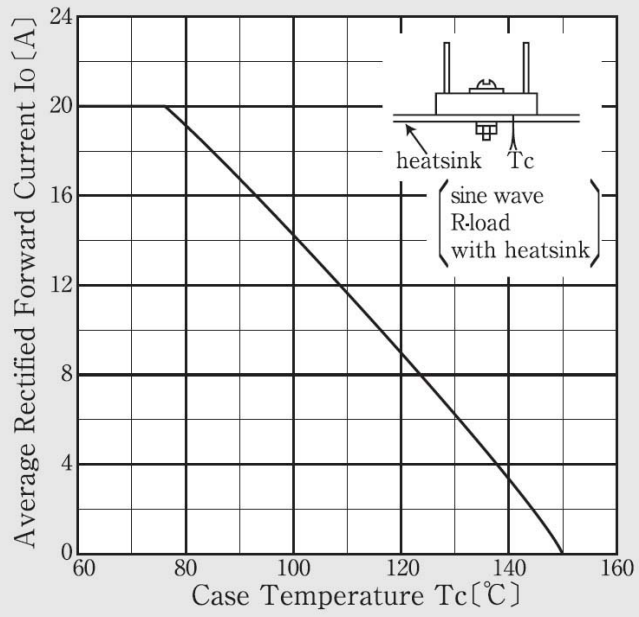
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=10A, Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	VR=800V, Pulse measurement, per diode			10	$\mu$ A
Thermal resistance	Rth(j-c)	Junction to case			2	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			17	°C/W

\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

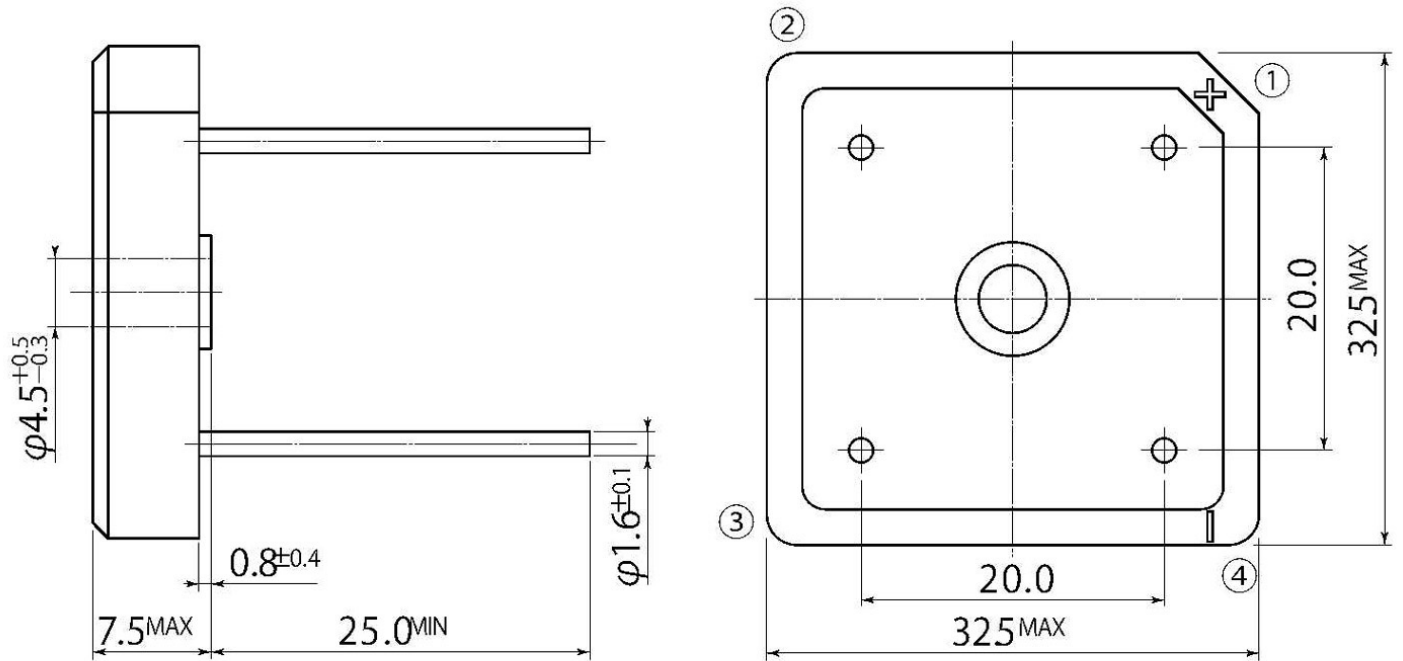


### Derating Curve



E13

JEDEC Code	—
JEITA Code	—
House Name	S20WB



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