

S20WB80

Bridge Diodes
800V, 20A

Feature

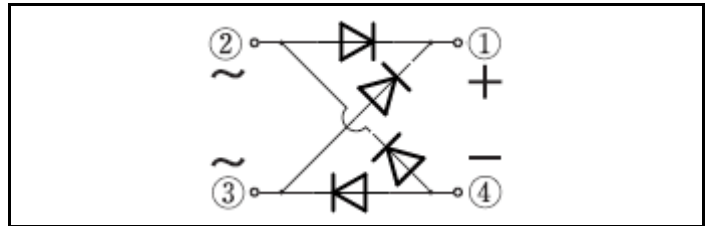
- Input/Output In-line
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): S20WB



Equivalent circuit



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

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

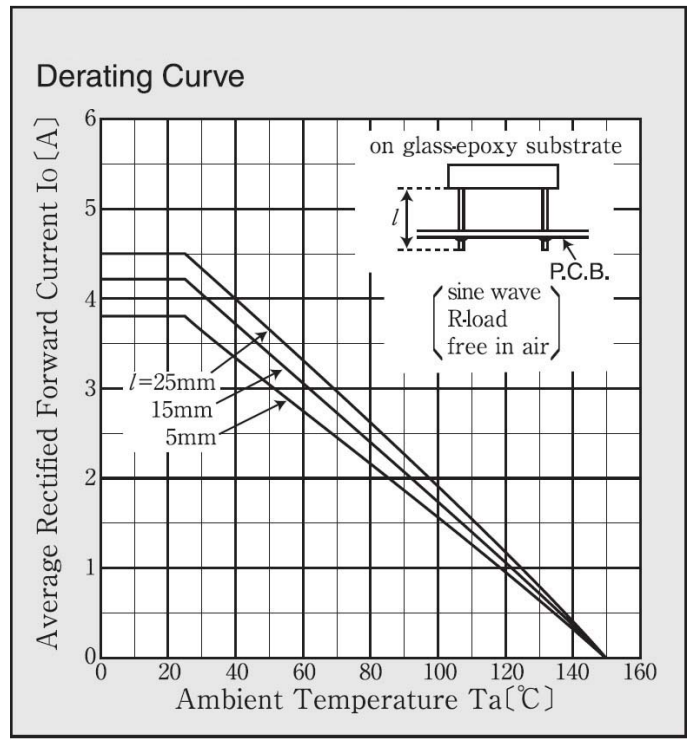
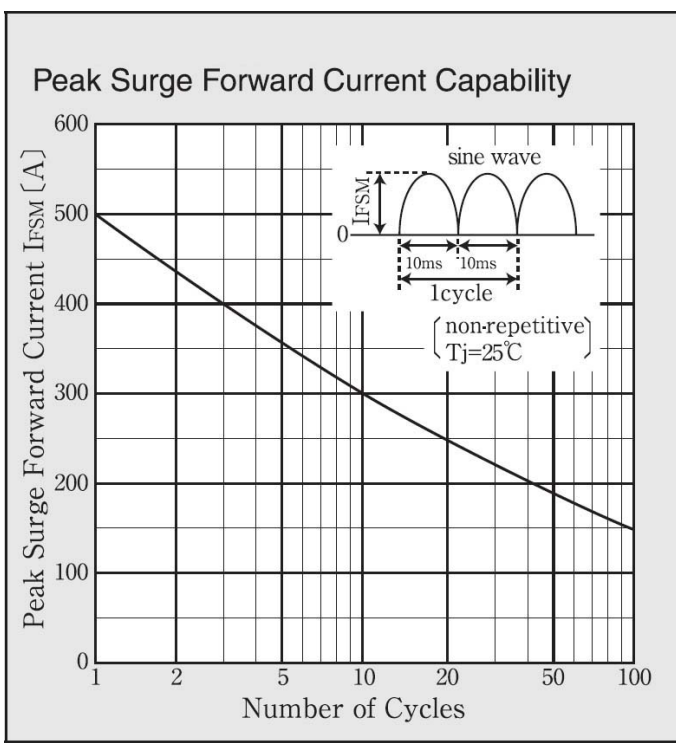
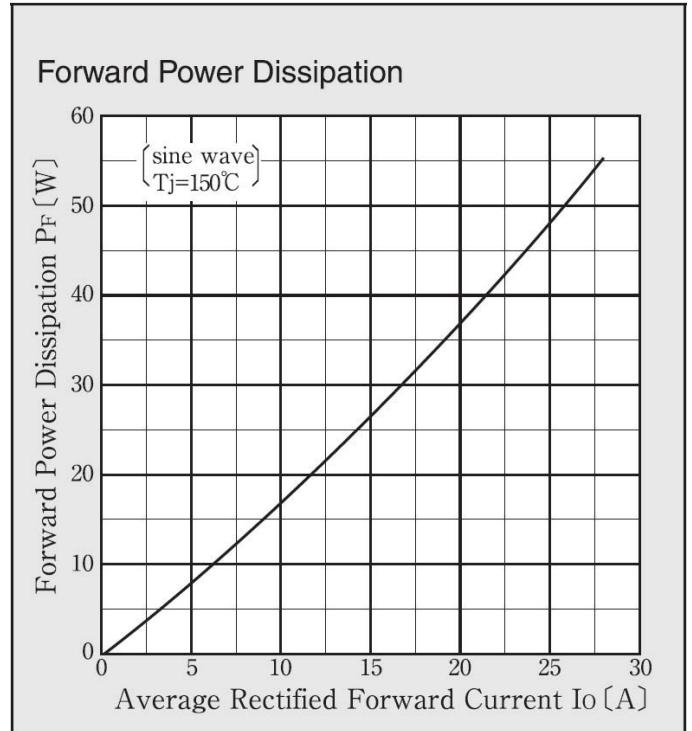
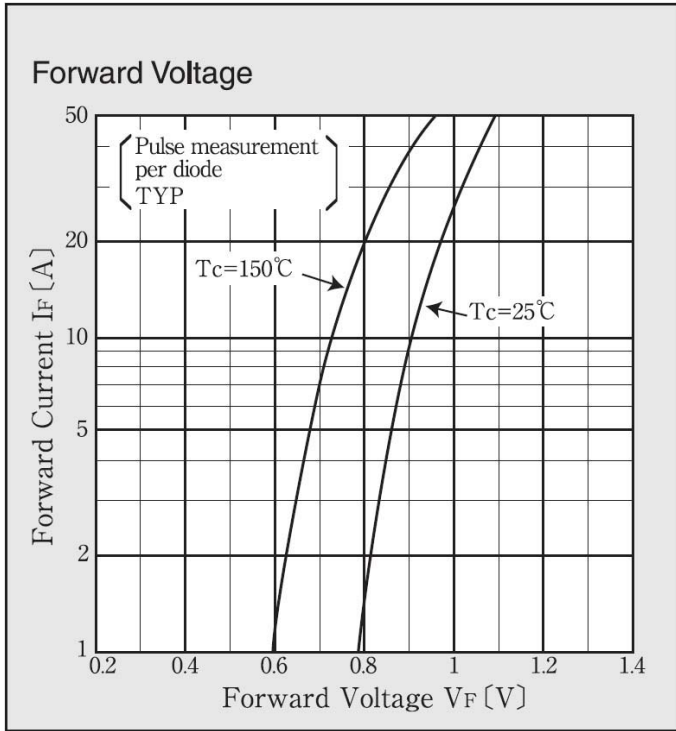
* : See the original Specifications

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

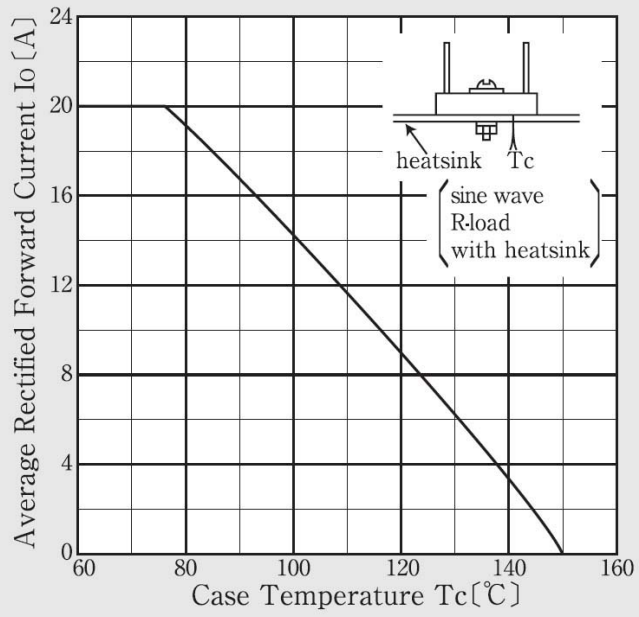
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =10A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	V _R =800V, Pulse measurement, per diode			10	μA
Thermal resistance	R _{th(j-c)}	Junction to case			2	°C/W
Thermal resistance	R _{th(j-l)}	Junction to lead			2	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient			17	°C/W

* :See the original Specifications

CHARACTERISTIC DIAGRAMS

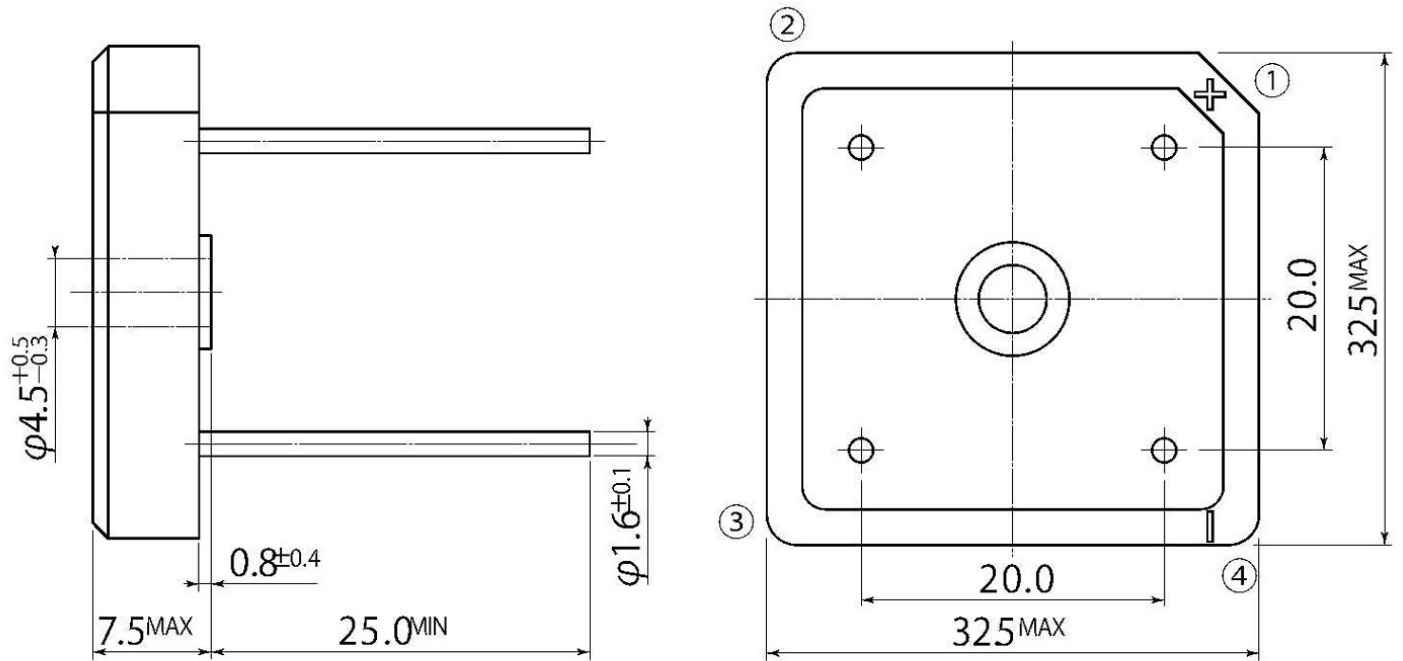


Derating Curve



E13

JEDEC Code	—
JEITA Code	—
House Name	S20WB



Notes

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