ShinDengen

S20WB60

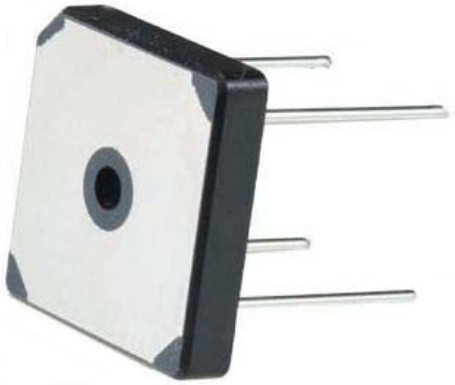
Bridge Diodes
600V, 20A

Feature

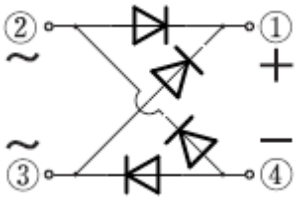
- Input/Outout In-line
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): S20WB



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		600	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=76°C	20	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	4.5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	500	A
Current squared time	I^2t	1ms≦tp＜10ms, Tj=25°C, per diode	800	A^2s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 1N･m)	2	N･m

※ ：See the original Specifications

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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=600V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink			2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			17	°C/W

※ :See the original Specifications

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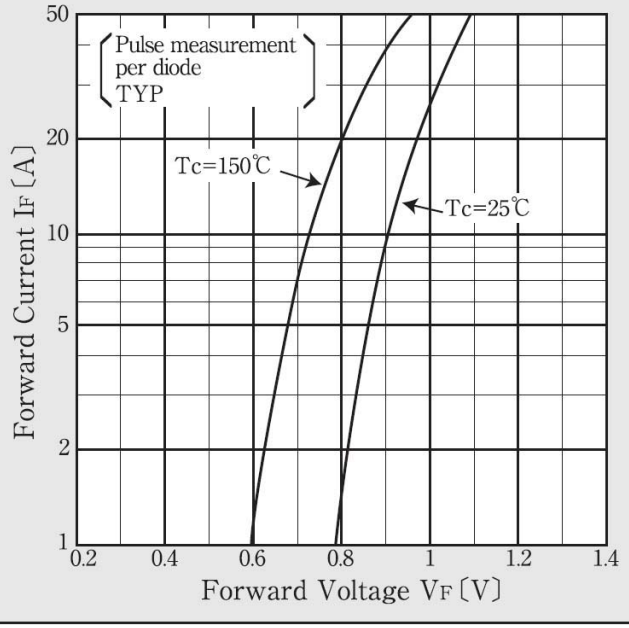
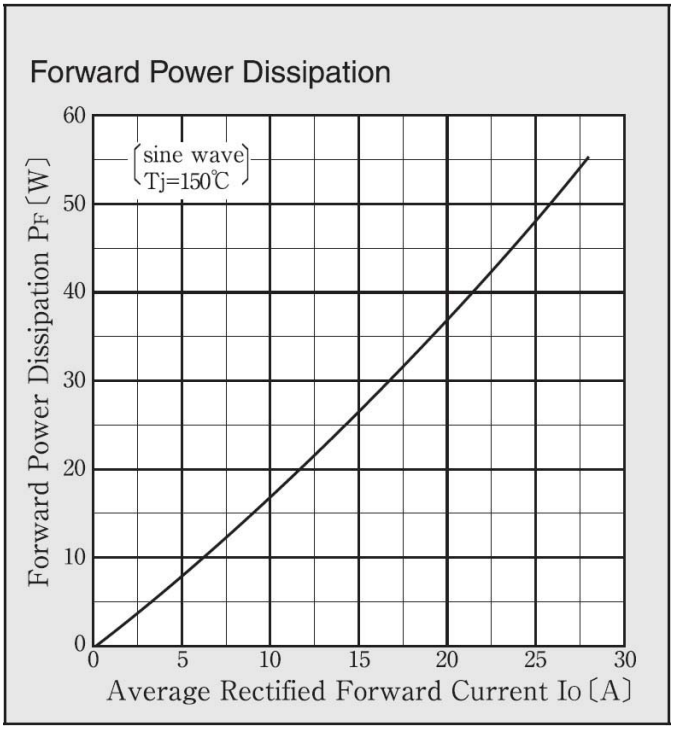
CHARACTERISTIC DIAGRAMS

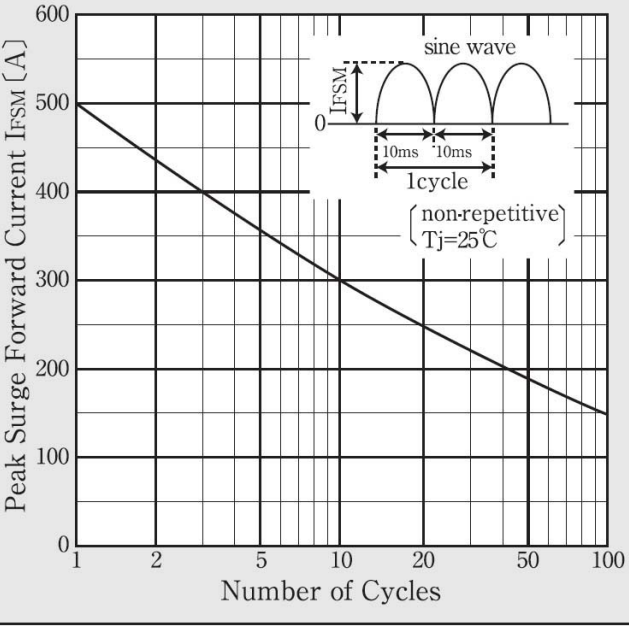
Forward Voltage



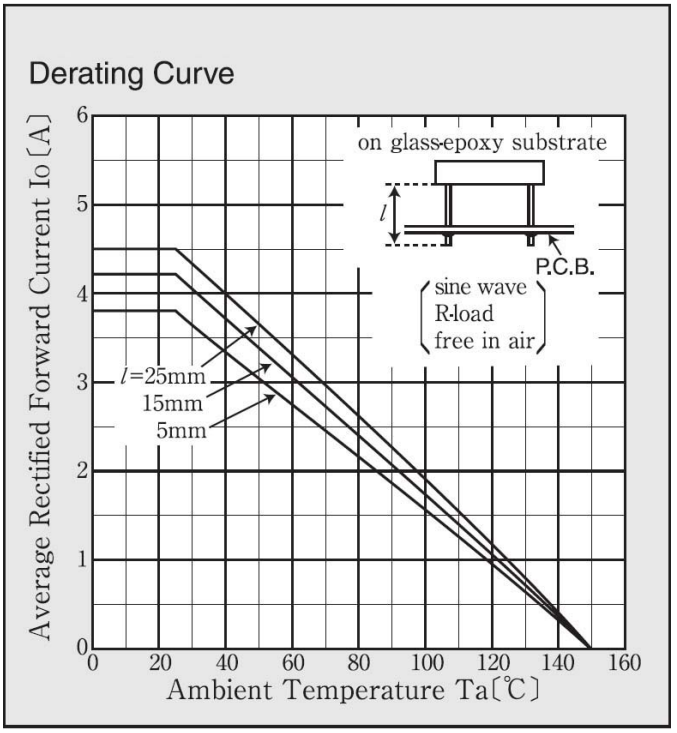
Forward Power Dissipation



Peak Surge Forward Current Capability



Derating Curve



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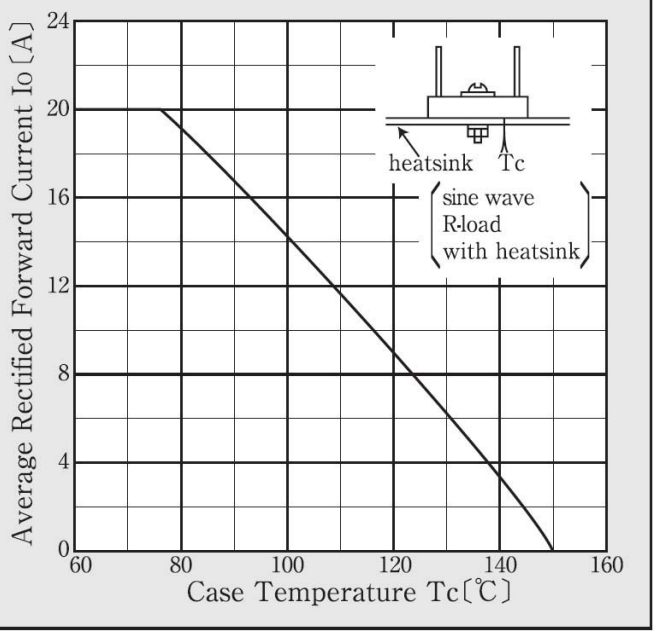
Derating Curve



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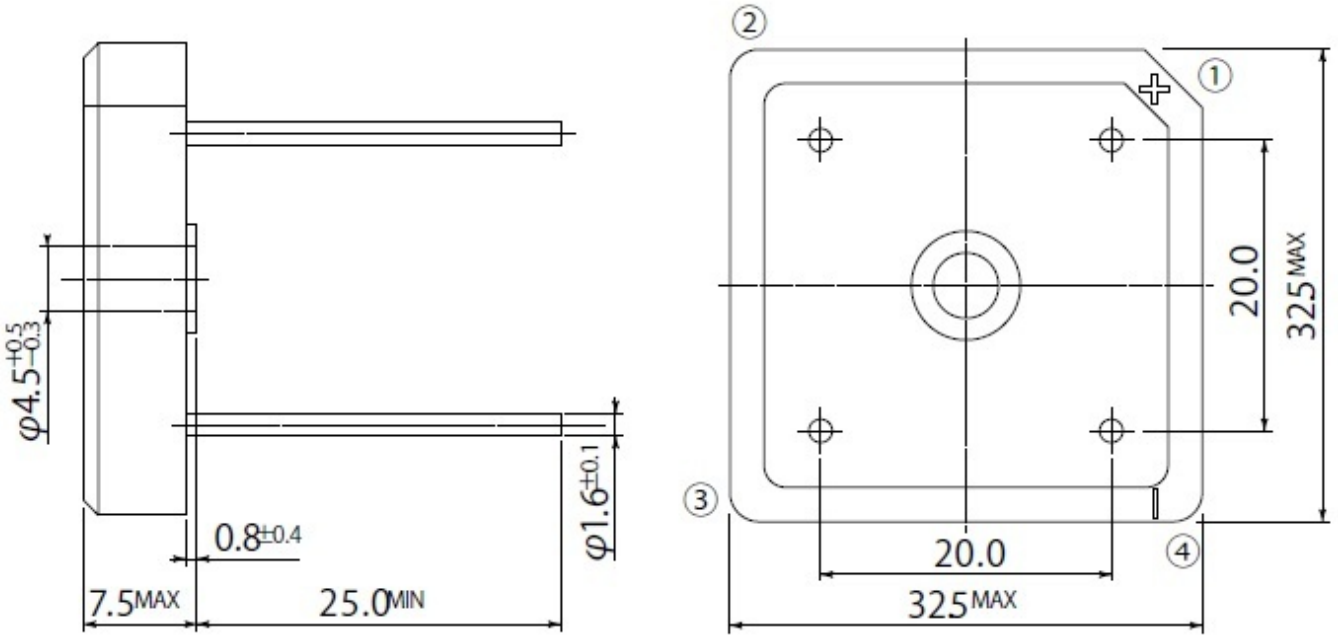
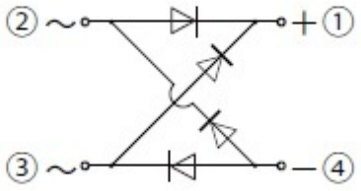
Outline Dimensions

unit:mm

E13

JEDEC Code	–
JEITA Code	–
House Name	S20WB





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   【Special applications】
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   【Specific applications】
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