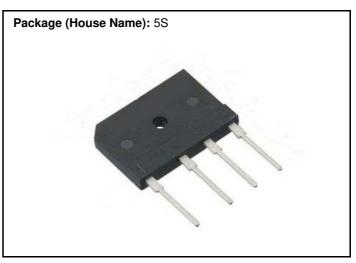
D30XBN20

Bridge Diodes 200V, 30A

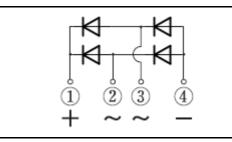
Feature

- Compact SIP
- SBD Bridge
- High Recovery Speed
- $\bullet \ Low \ V_F$
- \cdot Low I_R
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=91°C	30	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=26°C	3.1	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	A
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

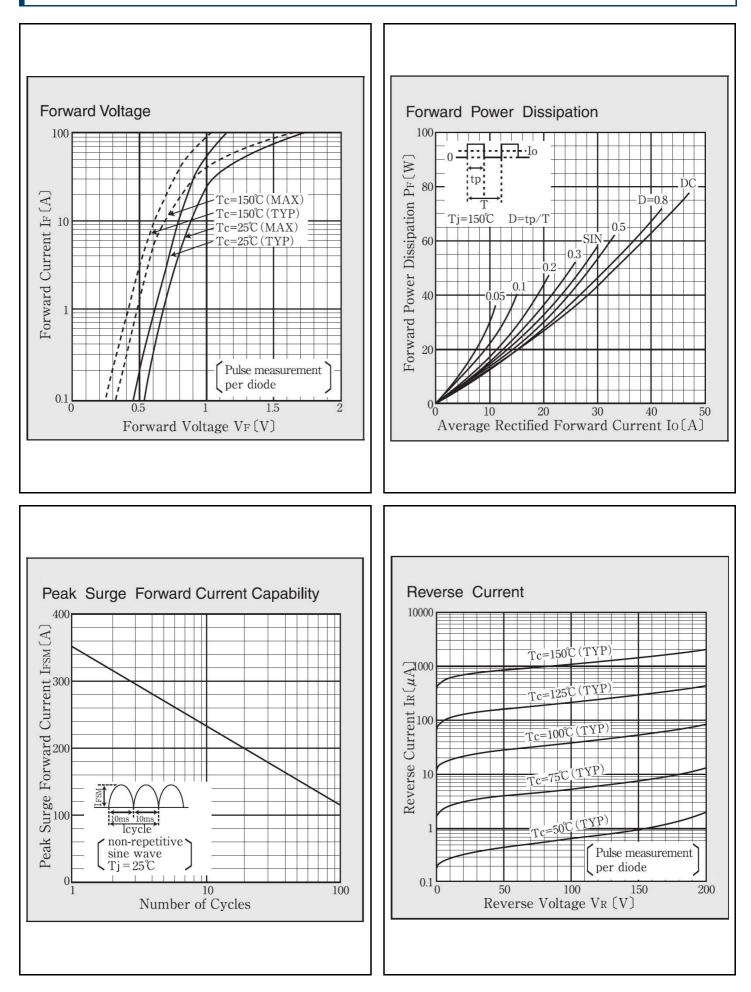
* : See the original Specifications

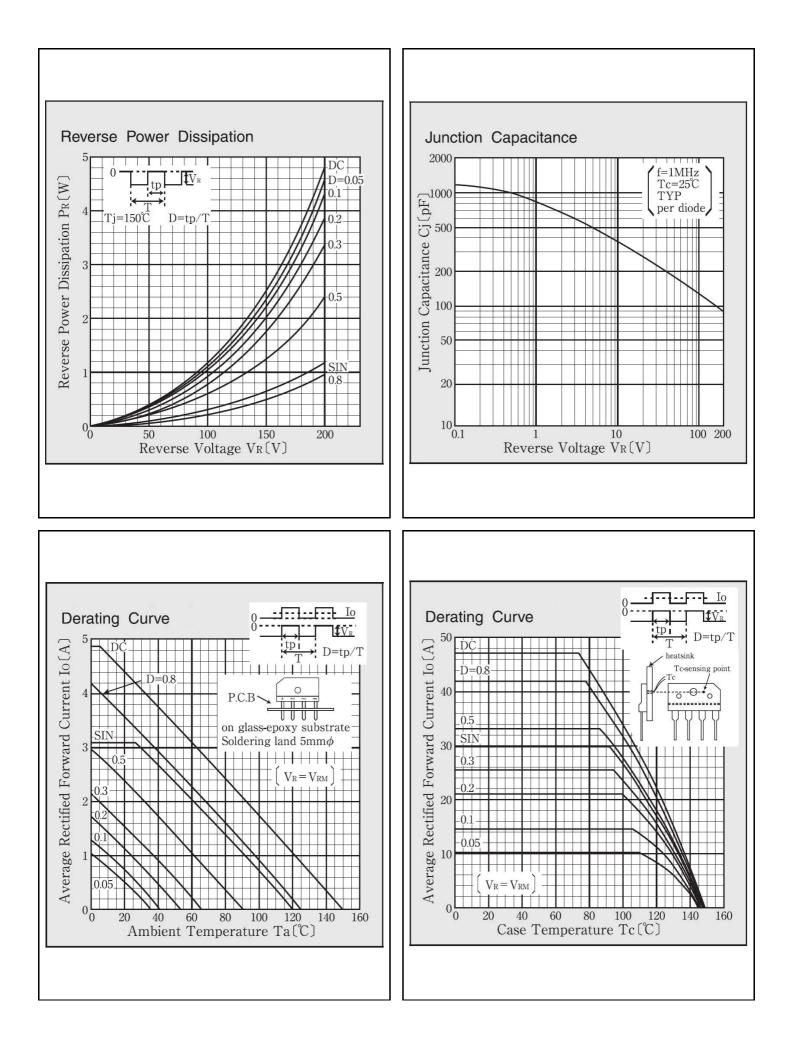
Electrical Characteristics	(unless otherwise specified : Tc=25°C)
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Item	Symbol	Conditions		Ratings		
	Symbol		MIN	ТҮР	MAX	Unit
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			0.9	V
Reverse current	I _R	VR=200V, Pulse measurement, per diode			10	μA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		360		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			25	°C/W

* : See the original Specifications

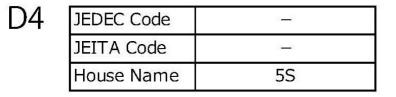
CHARACTERISTIC DIAGRAMS

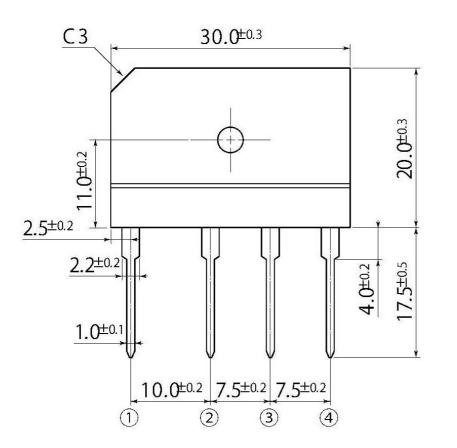


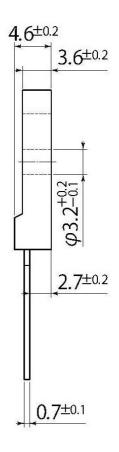


unit:mm

scale: 2/1







Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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