

# D15XBN20

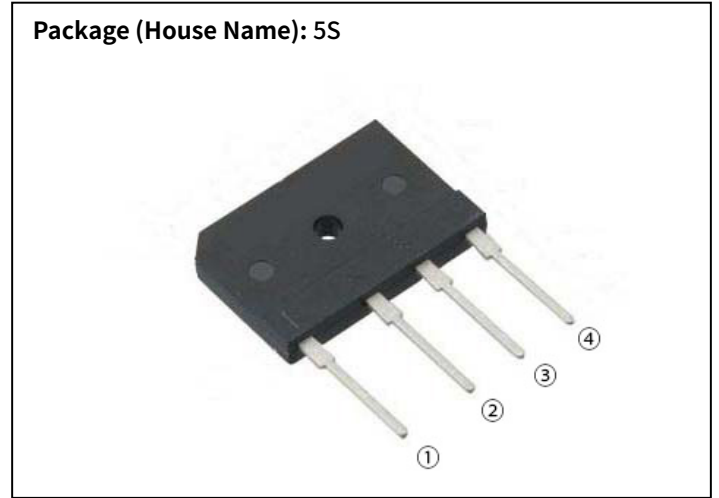
Bridge Diodes  
200V, 15A

## Feature

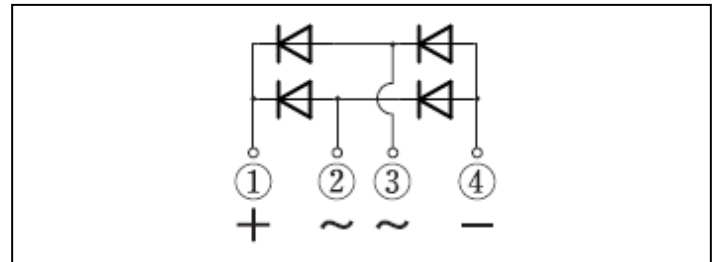
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low  $V_F$
- Low  $I_R$
- Pb free terminal
- RoHS:Yes

## OUTLINE

Package (House Name): 5S



## Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	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=106°C	15	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Without heatsink, Ta=27°C	3.3	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	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

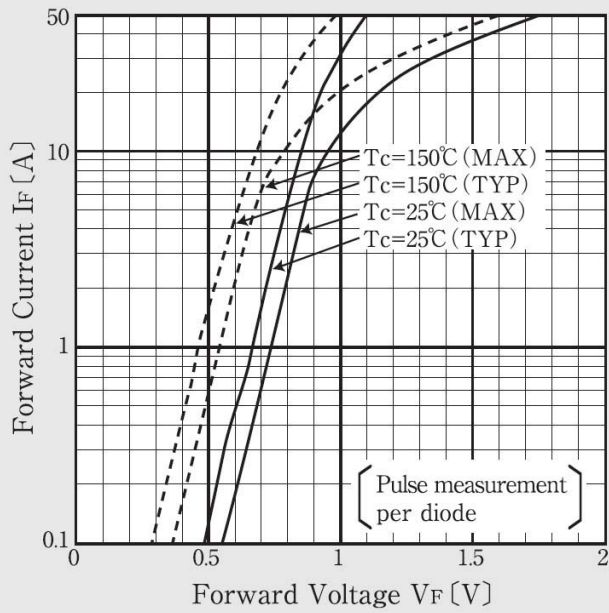
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=7.5A, Pulse measurement, per diode			0.9	V
Reverse current	I <sub>R</sub>	VR=200V, Pulse measurement, per diode			5	μA
Total capacitance	C <sub>t</sub>	f=1MHz, VR=10V, per diode		190		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			25	°C/W

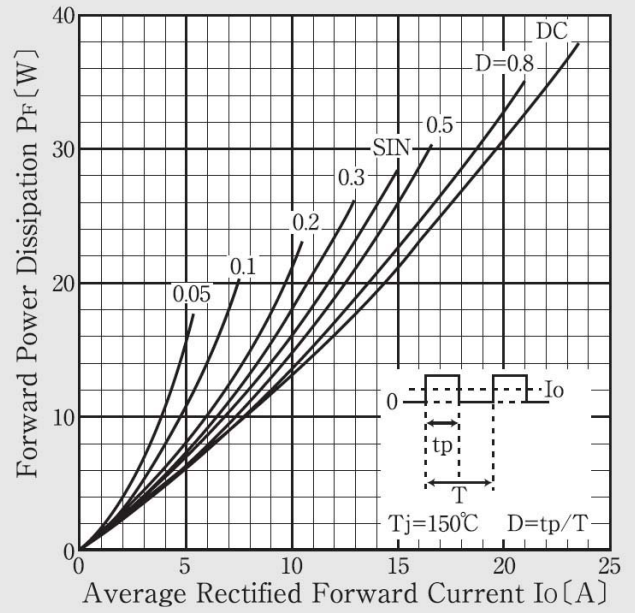
※ : See the original Specifications

# CHARACTERISTIC DIAGRAMS

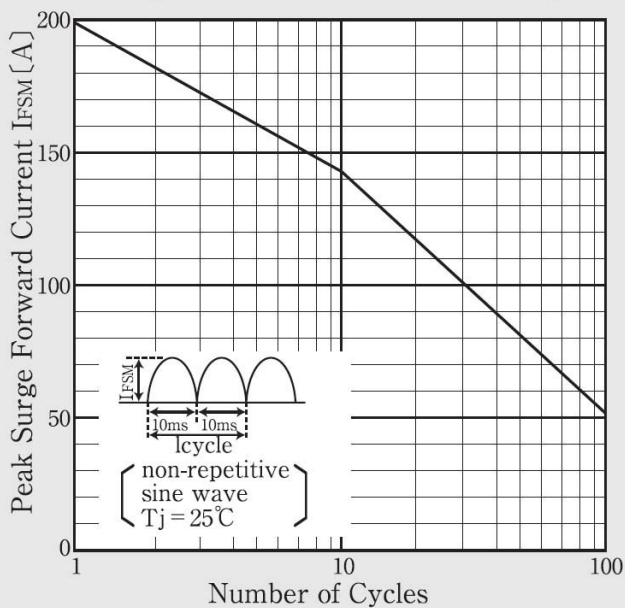
### Forward Voltage



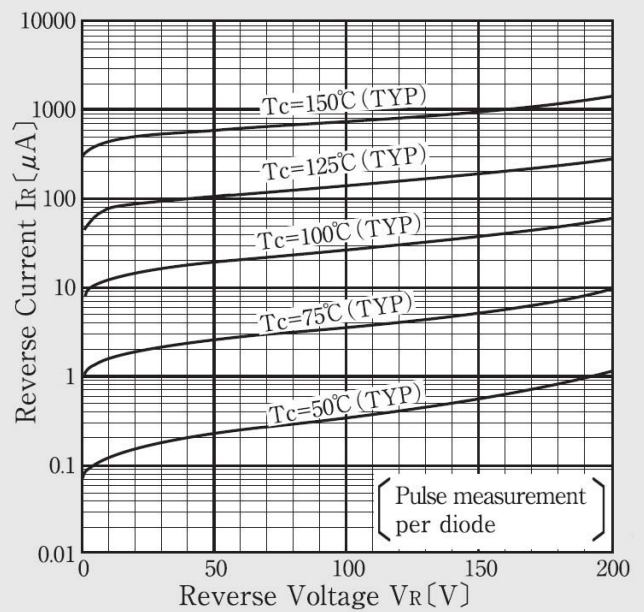
### Forward Power Dissipation

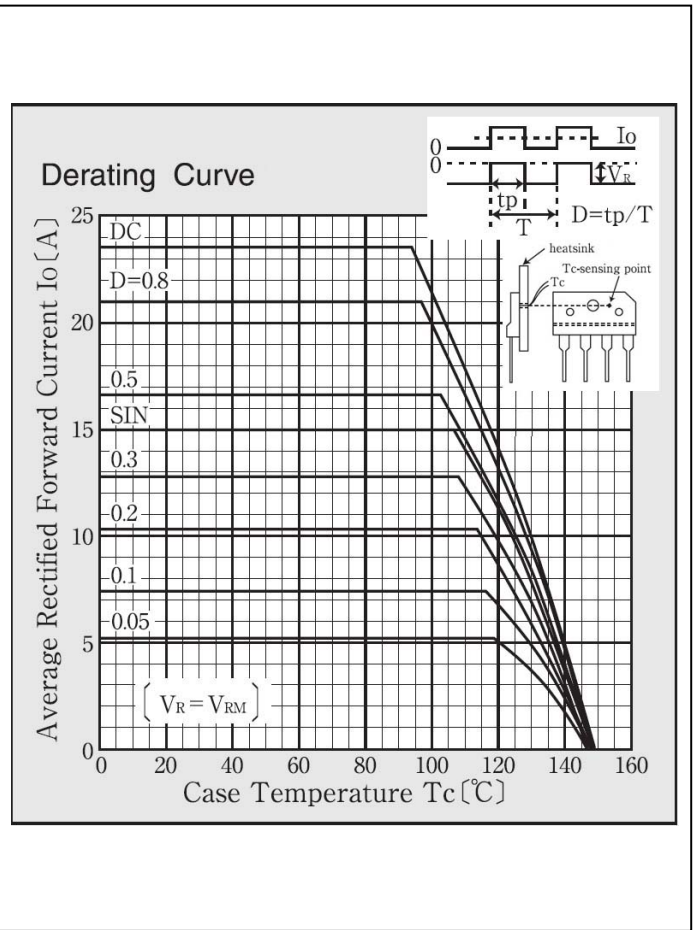
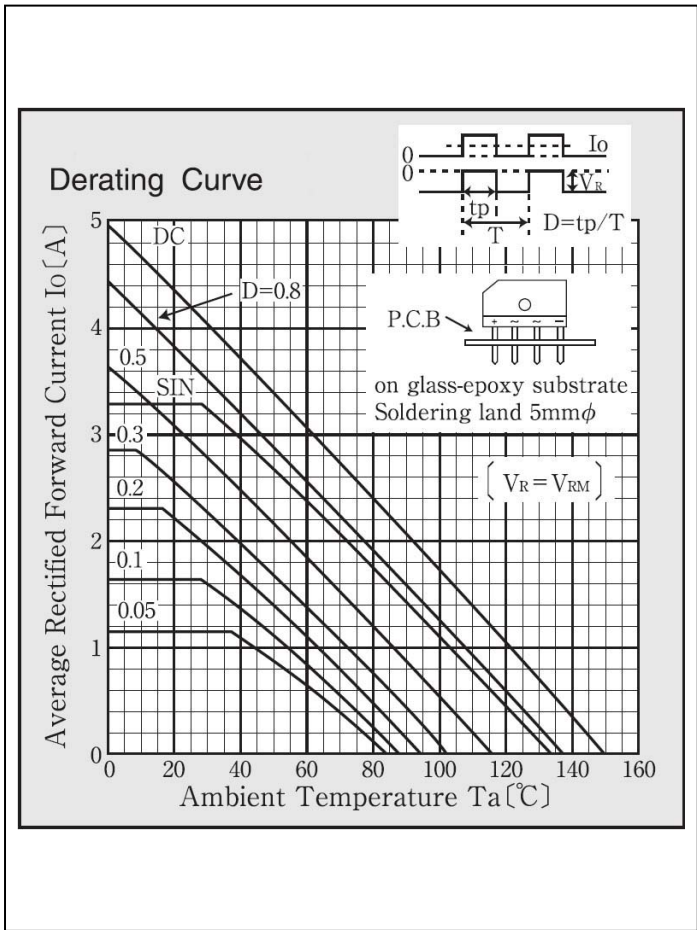
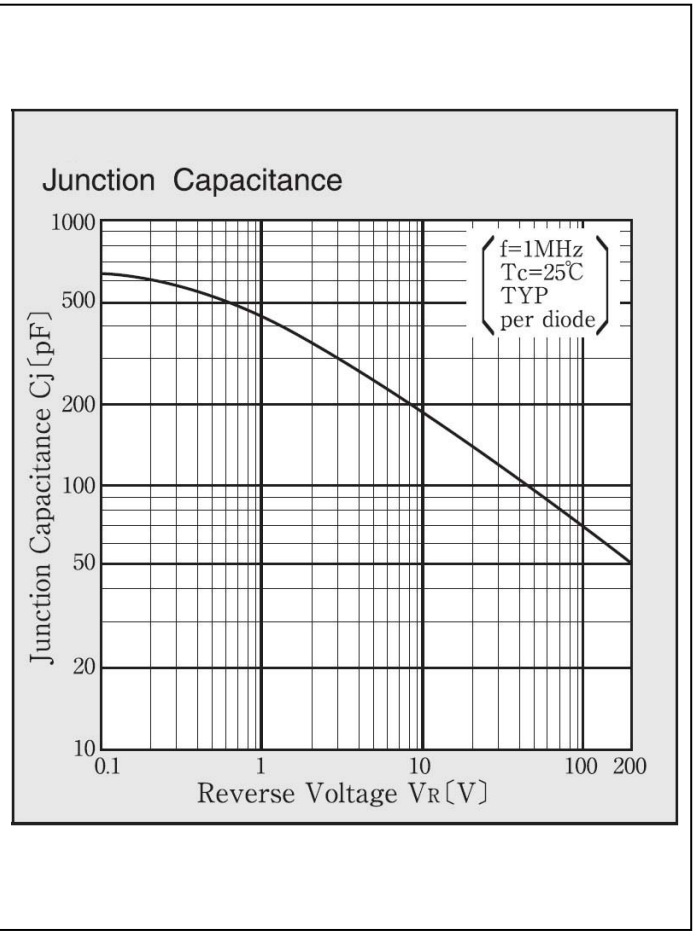
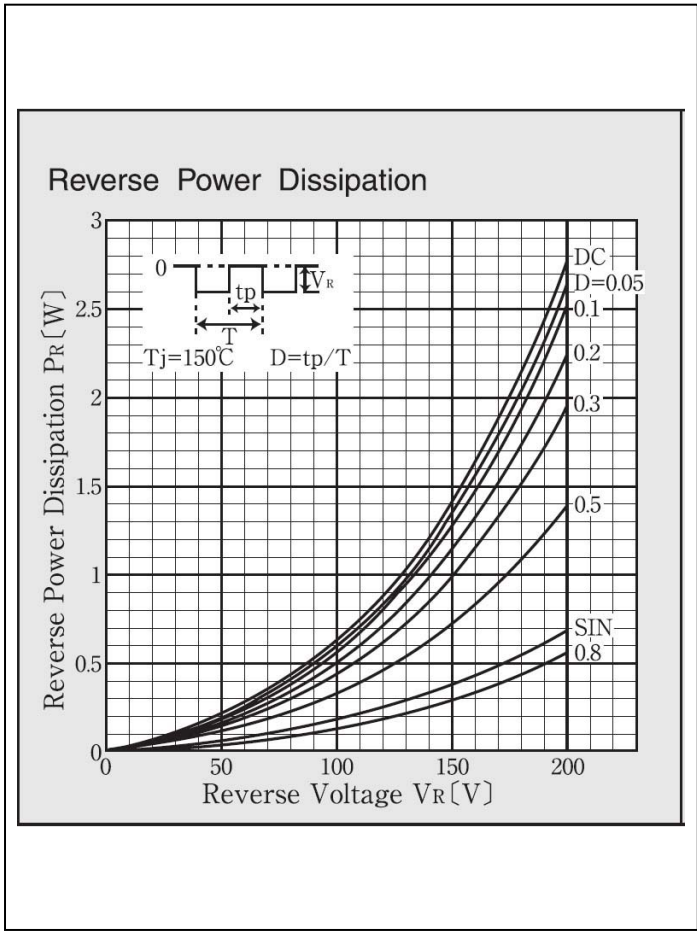


### Peak Surge Forward Current Capability



### Reverse Current



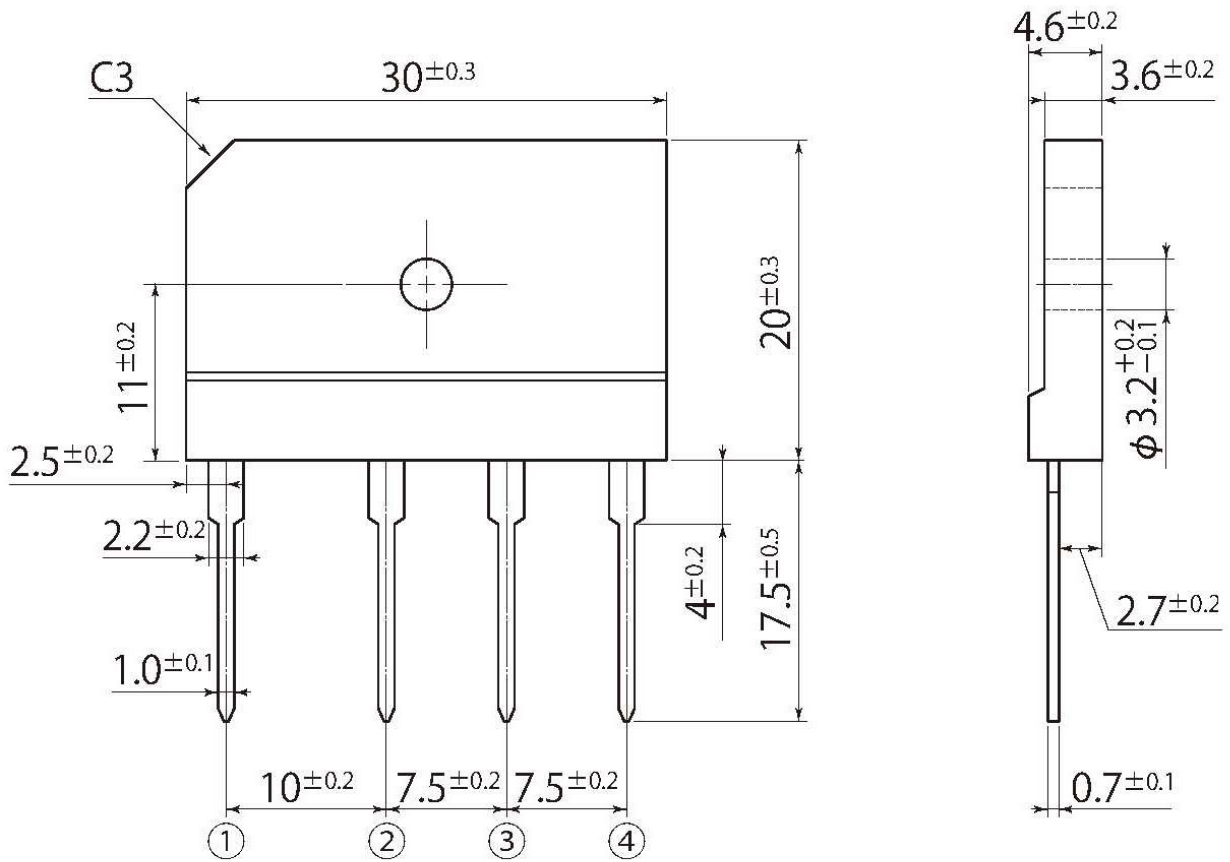


# Outline Dimensions

unit:mm

## D4

JEDEC Code	-
JEITA Code	-
House Name	5S



## Notes

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