

# D15XBN20

## Bridge Diodes

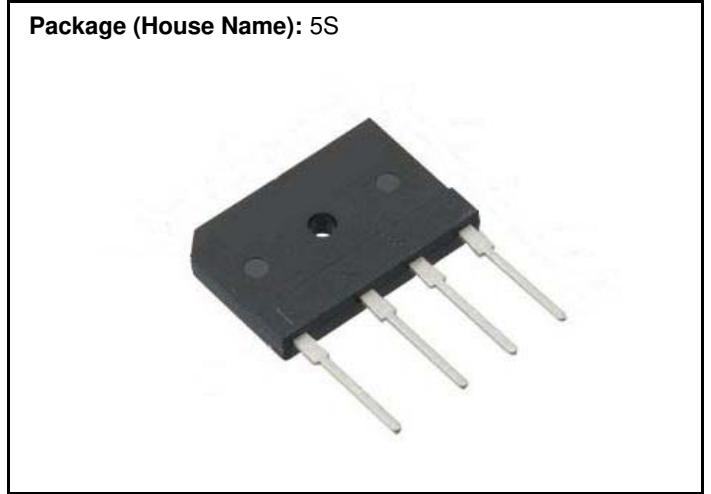
200V, 15A

### Feature

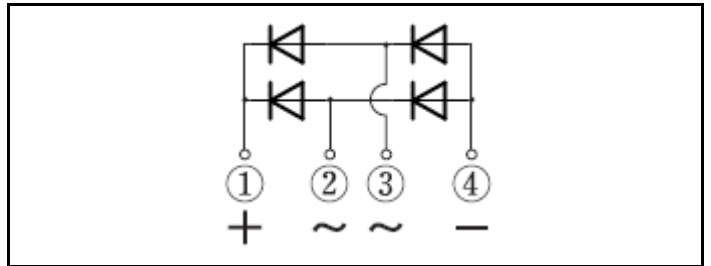
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low  $V_F$
- Low  $I_R$
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): 5S



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : $T_c=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	$T_{stg}$		-55 to 150	$^\circ\text{C}$
Junction temperature	$T_j$		150	$^\circ\text{C}$
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, With heatsink, $T_c=106^\circ\text{C}$	15	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Without heatsink, $T_a=27^\circ\text{C}$	3.3	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	200	A
Dielectric strength	$V_{dis}$	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : $0.5\text{N}\cdot\text{m}$ )	0.8	$\text{N}\cdot\text{m}$

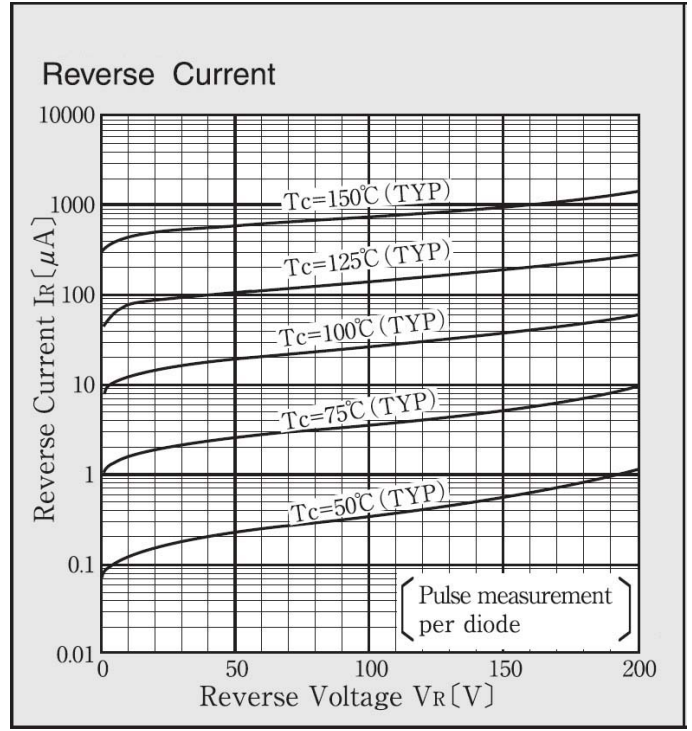
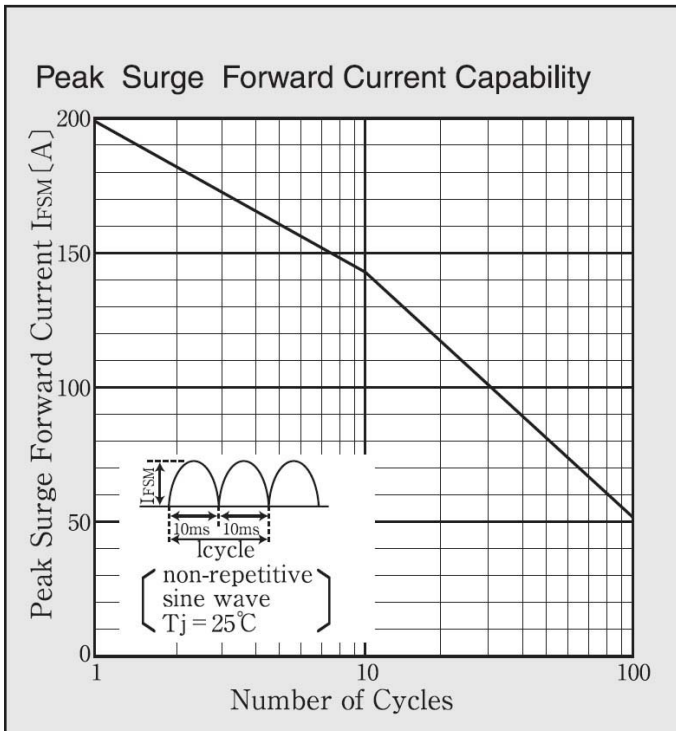
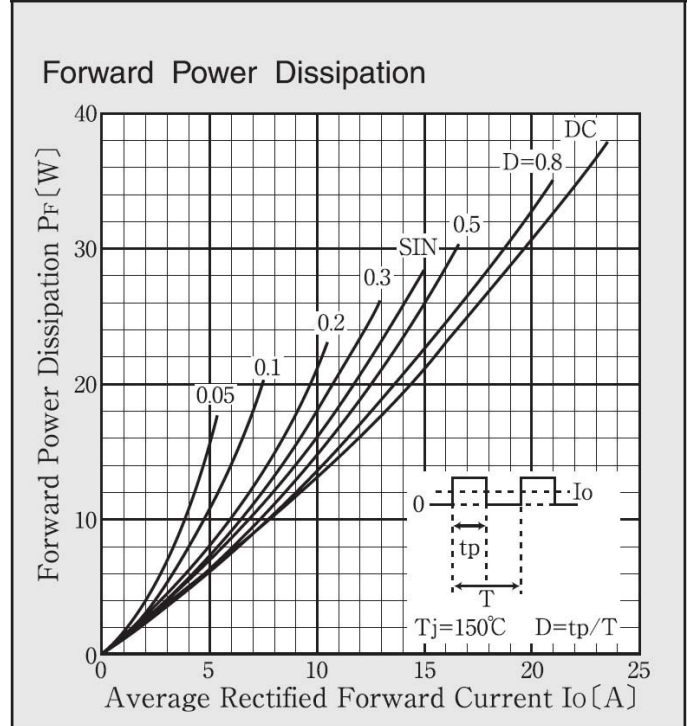
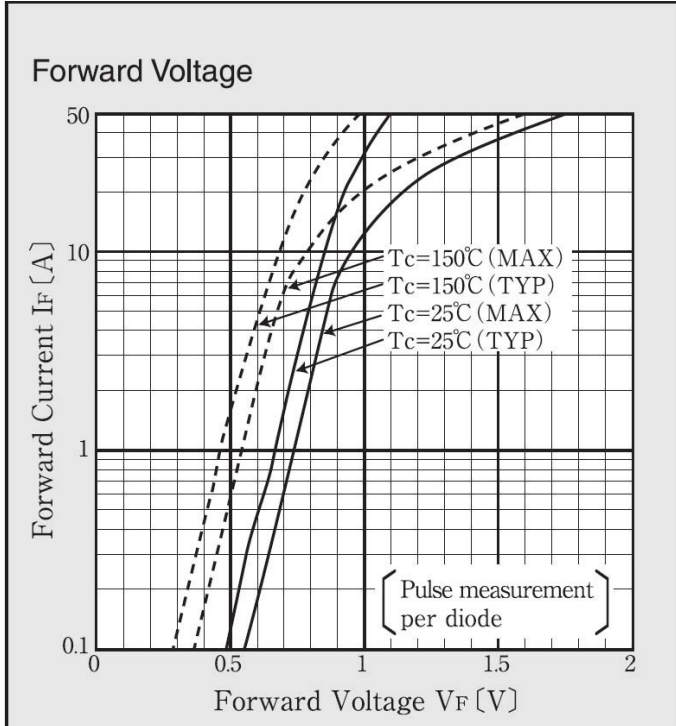
※ :See the original Specifications

**Electrical Characteristics** (unless otherwise specified : T<sub>c</sub>=25°C)

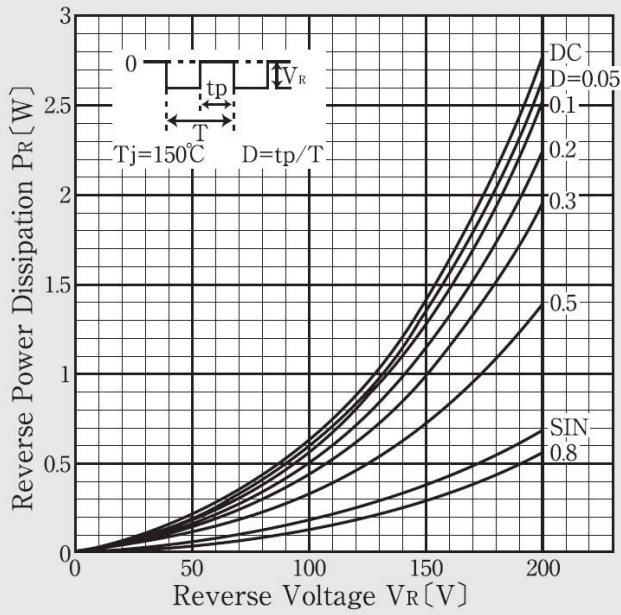
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =7.5A, Pulse measurement, per diode			0.9	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V, Pulse measurement, per diode			5	μA
Total capacitance	C <sub>t</sub>	f=1MHz, V <sub>R</sub> =10V, per diode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

\* :See the original Specifications

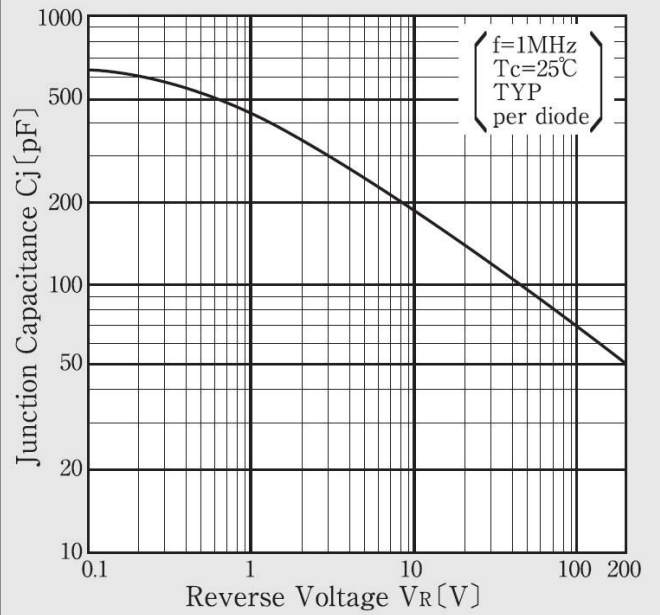
# CHARACTERISTIC DIAGRAMS



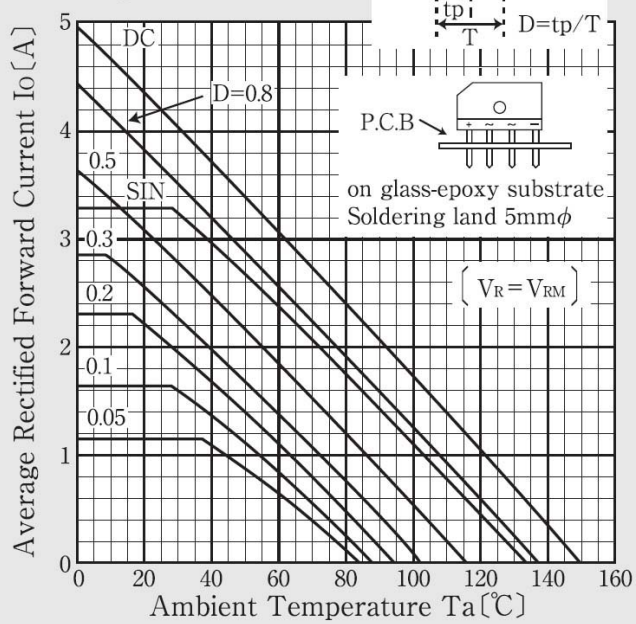
### Reverse Power Dissipation



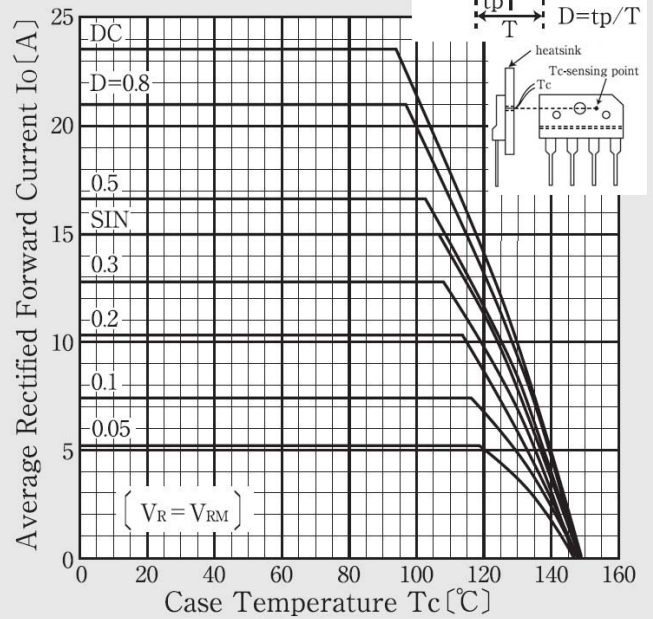
### Junction Capacitance



### Derating Curve

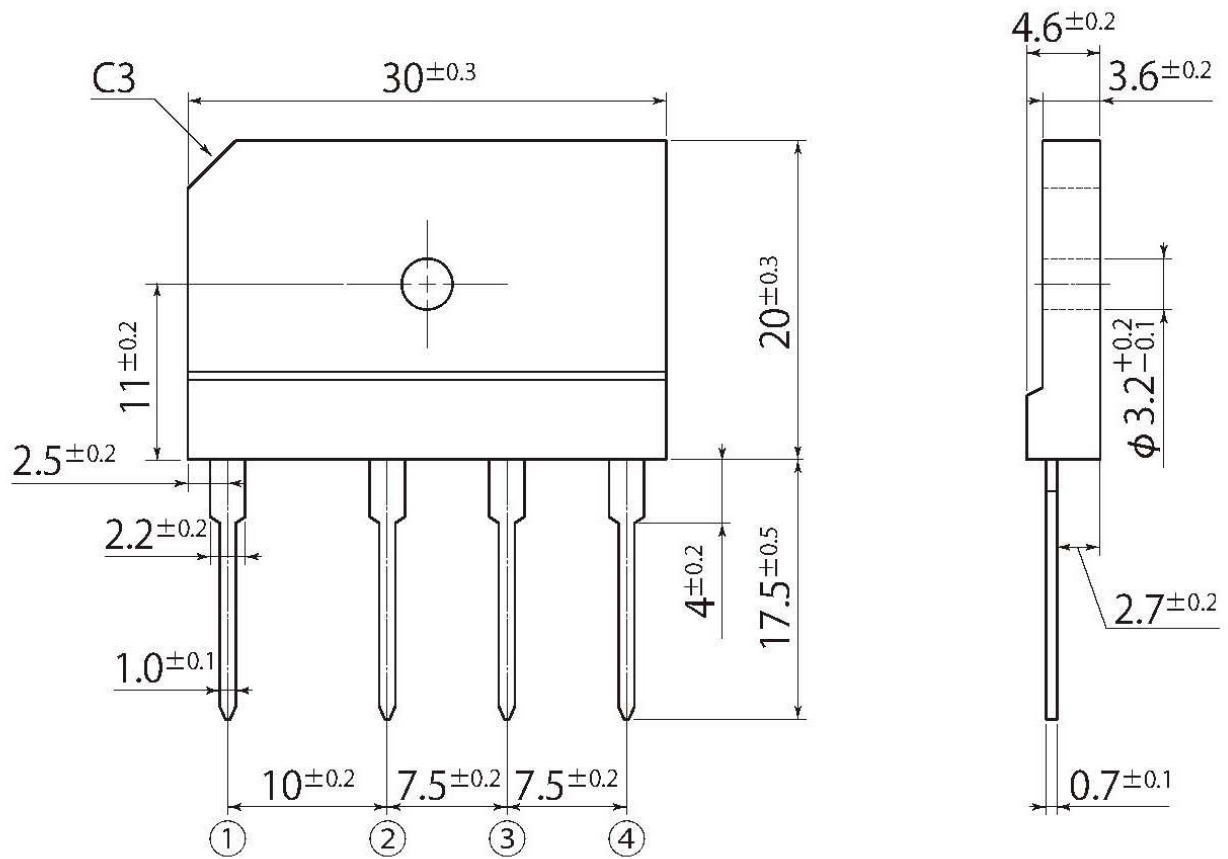


### Derating Curve



D4

JEDEC Code	-
JEITA Code	-
House Name	5S



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