

# D20XBS6

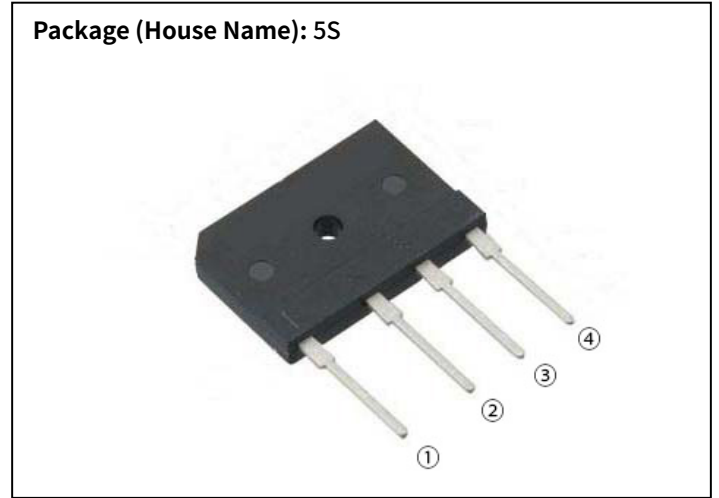
Bridge Diodes  
60V, 20A

## Feature

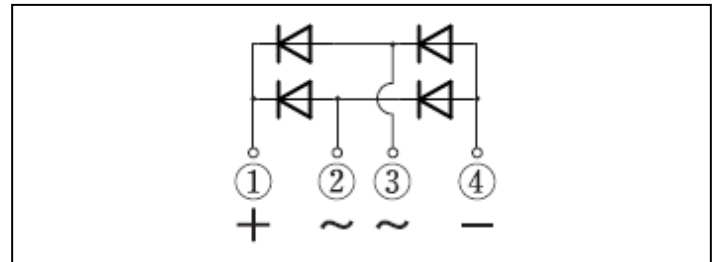
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low  $V_F$
- Pb free terminal
- RoHS:Yes

## 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	$V_{RRM}$		60	V
Non-repetitive peak reverse voltage	$V_{RSM}$	Pulse width 0.5ms, Duty 1/40	65	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, With heatsink, $T_c=100^{\circ}\text{C}$	20	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Without heatsink, $T_a=27^{\circ}\text{C}$	2.1	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	200	A
Repetitive peak surge reverse power	$P_{RRSM}$	Pulse width $10\mu\text{s}$ , per diode, $T_j=25^{\circ}\text{C}$	660	W
Dielectric strength	$V_{dis}$	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : $0.5\text{N}\cdot\text{m}$ )	0.8	$\text{N}\cdot\text{m}$

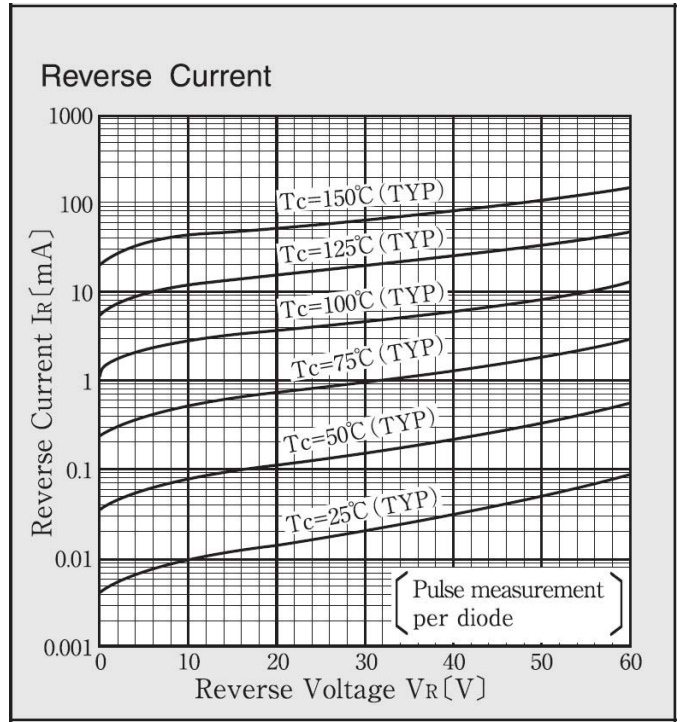
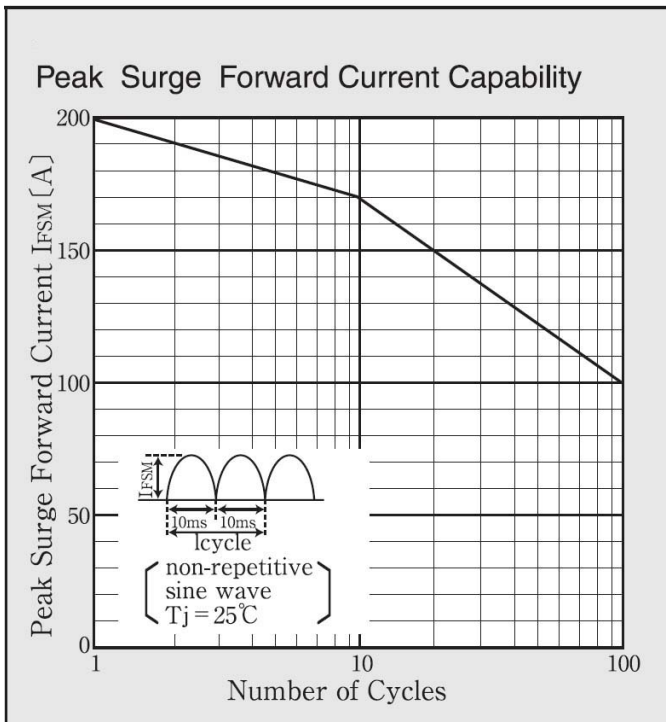
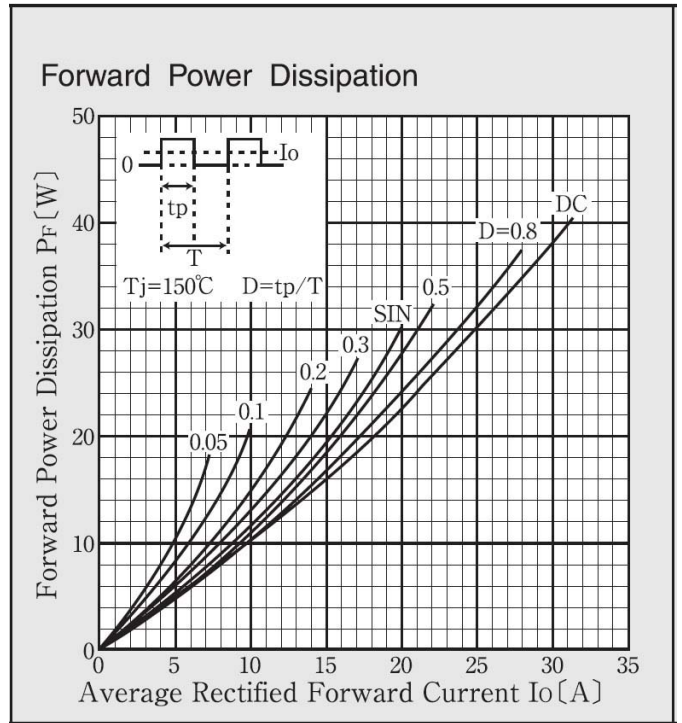
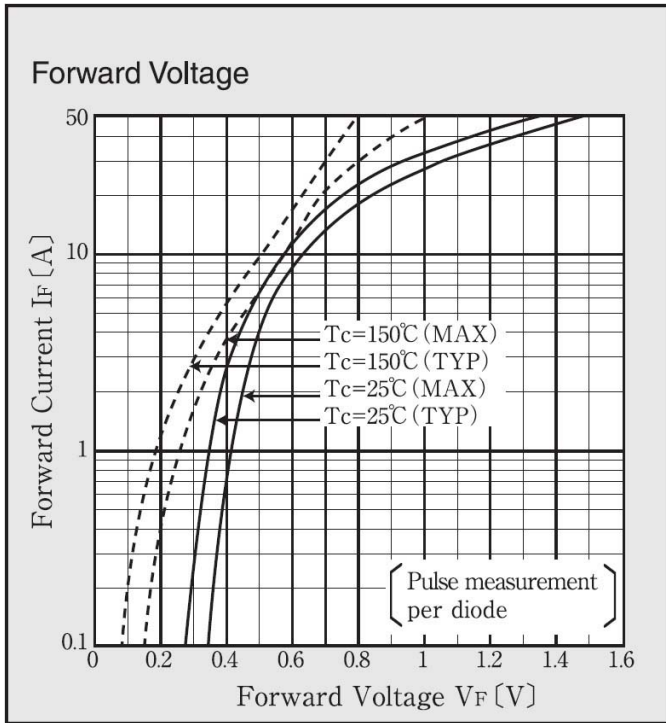
※ : See the original Specifications

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

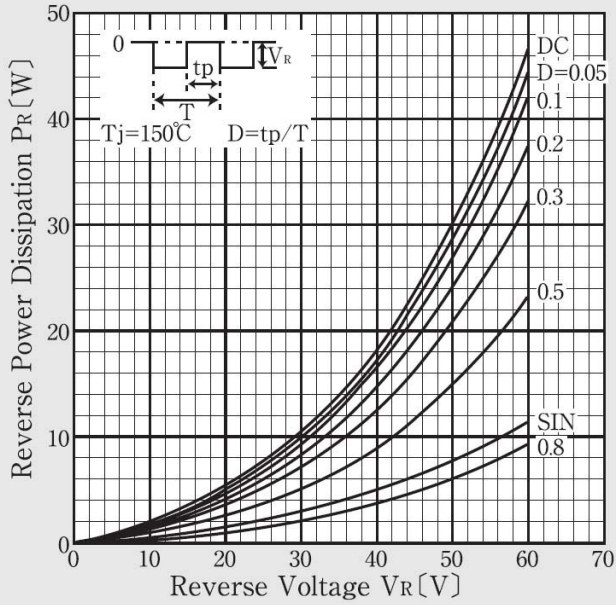
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=10A, Pulse measurement, per diode			0.63	V
Reverse current	I <sub>R</sub>	VR=60V, Pulse measurement, per diode			8000	μA
Total capacitance	C <sub>t</sub>	f=1MHz, VR=10V, per diode		370		pF
Thermal resistance	Rth(j-c)	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

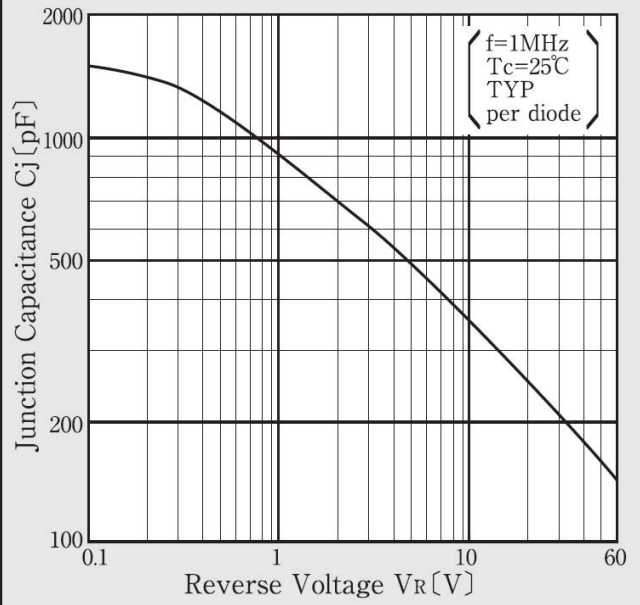
# CHARACTERISTIC DIAGRAMS



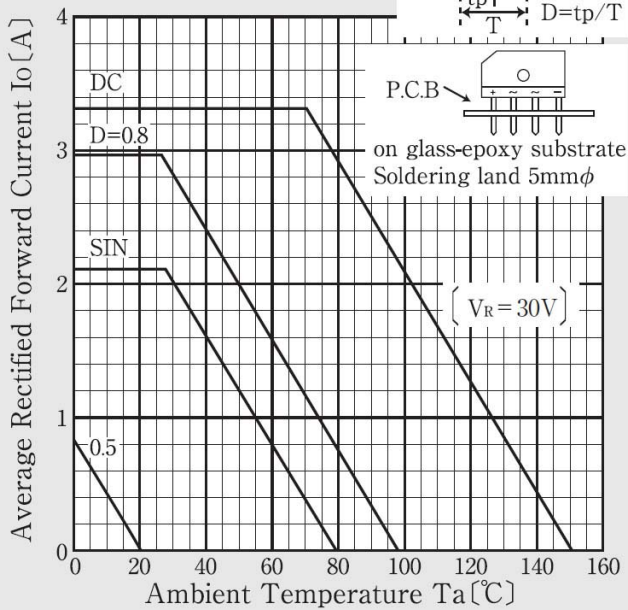
### Reverse Power Dissipation



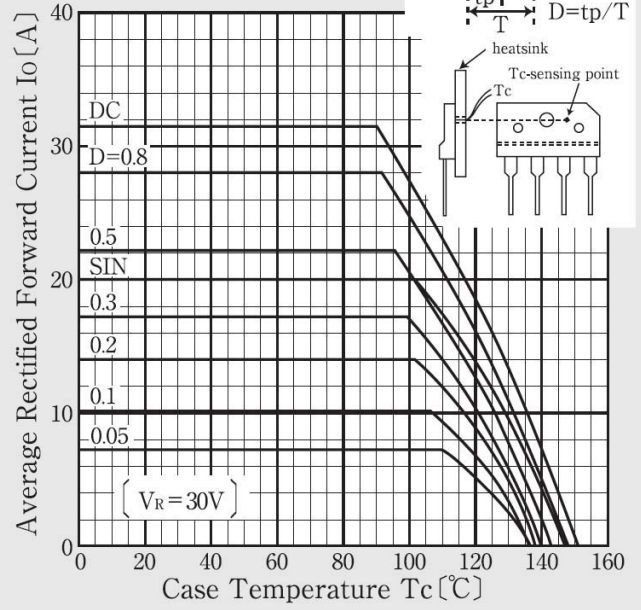
### Junction Capacitance



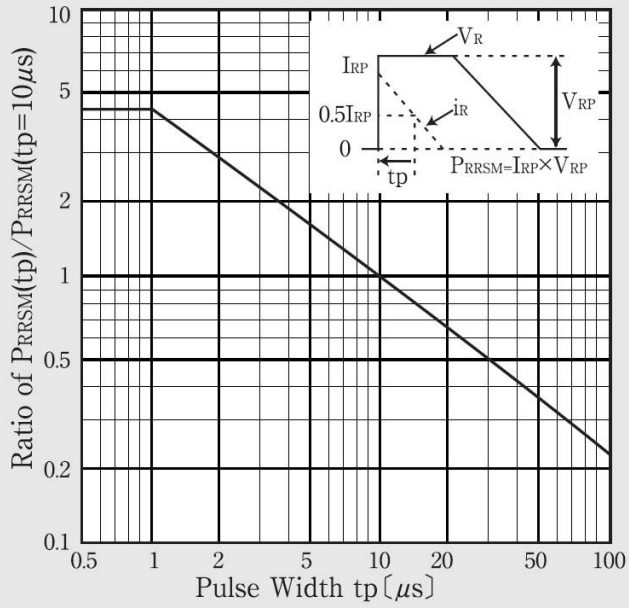
### Derating Curve



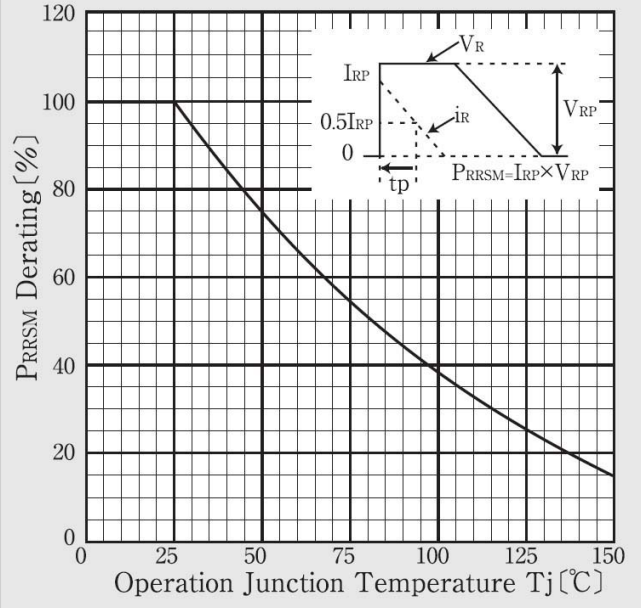
### Derating Curve



### Repetitive Surge Reverse Power Capability



### Repetitive Surge Reverse Power Derating Curve

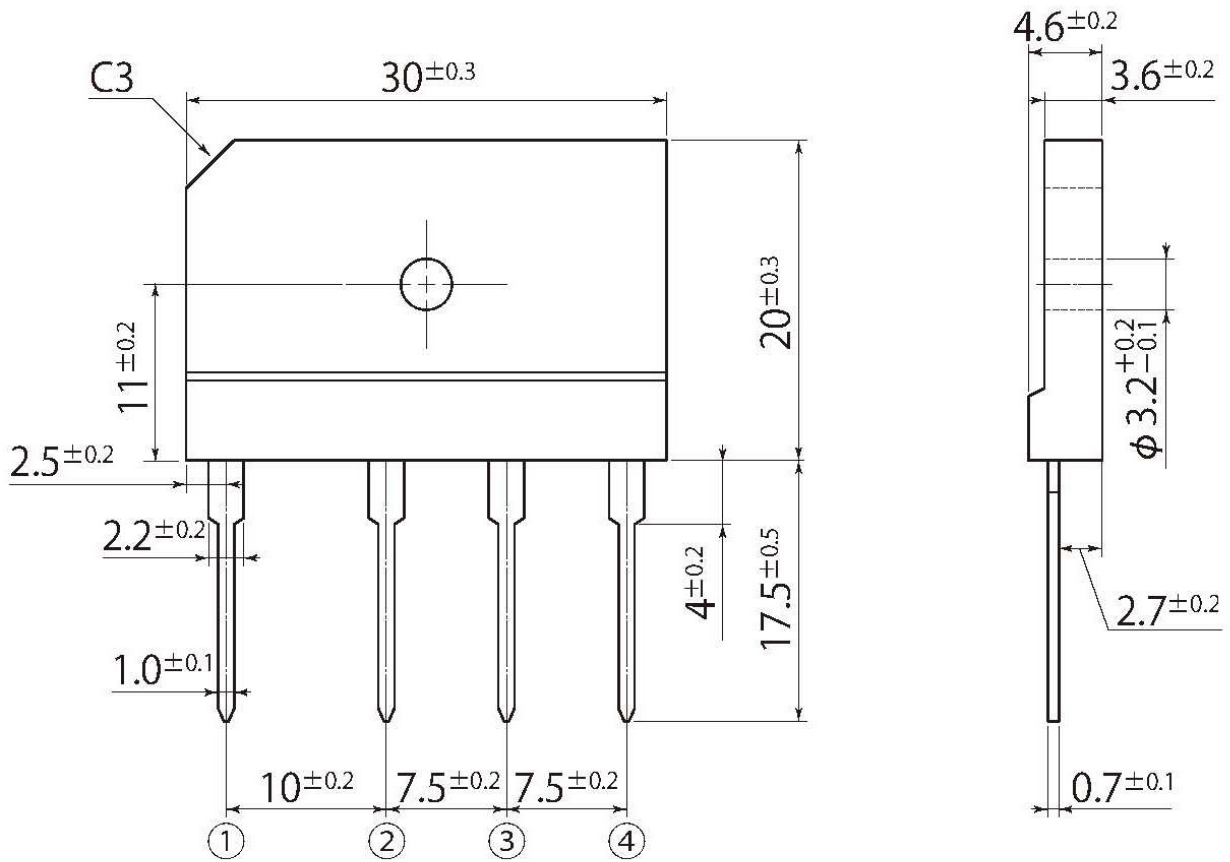


# Outline Dimensions

unit:mm

## D4

JEDEC Code	-
JEITA Code	-
House Name	5S



## Notes

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