

D20XBS6

Bridge Diodes
60V, 20A

Feature

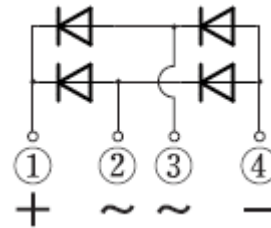
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

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 μs , 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 : 0.5N·m)	0.8	N·m

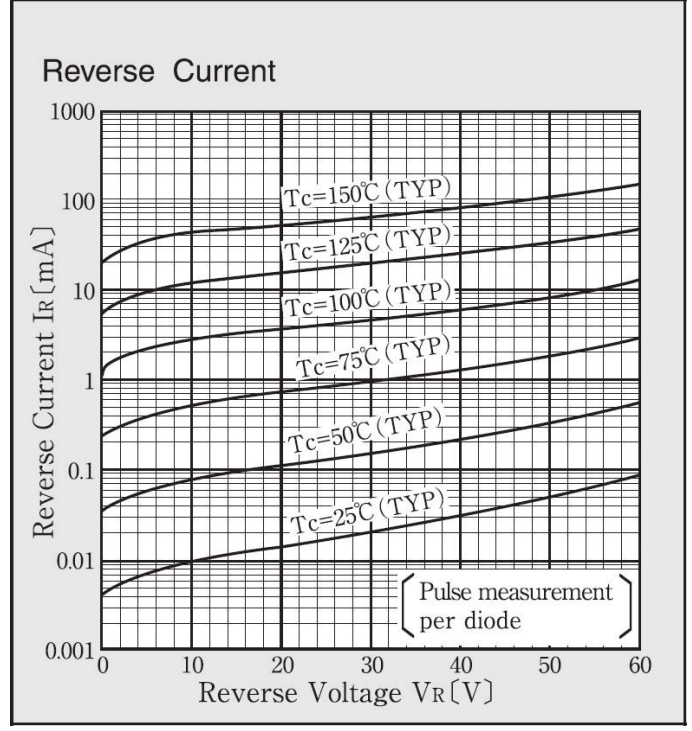
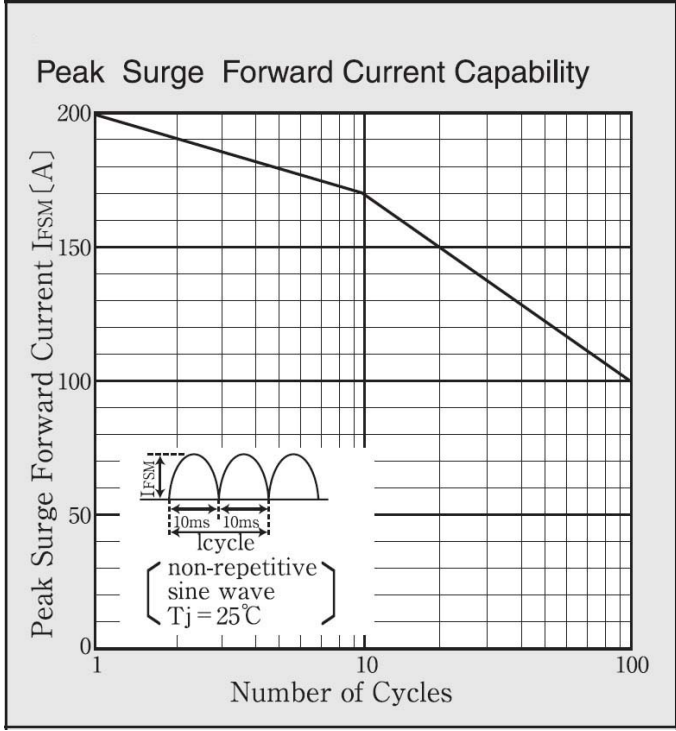
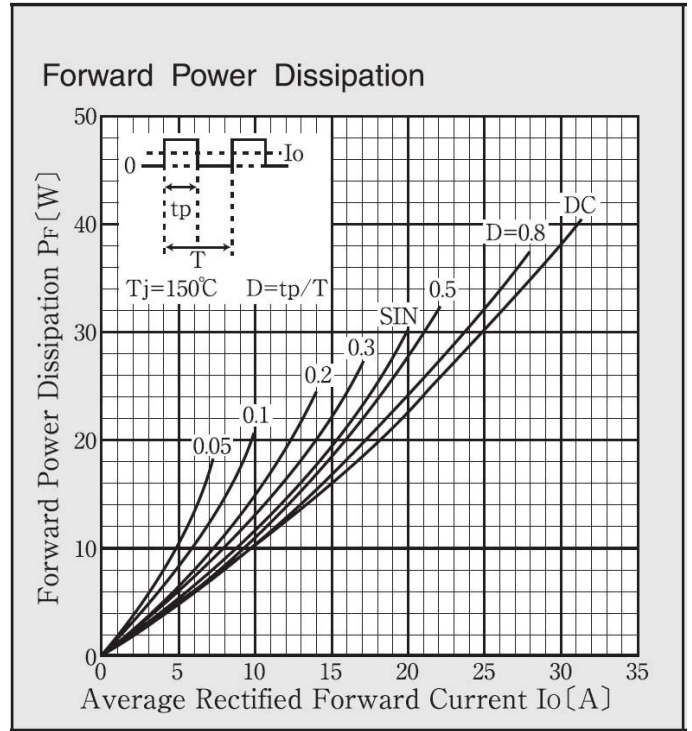
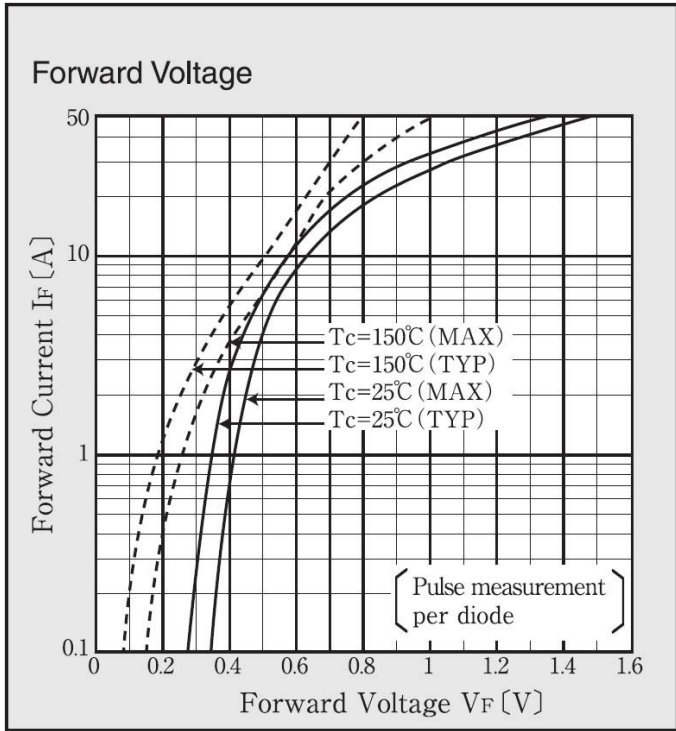
* : See the original Specifications

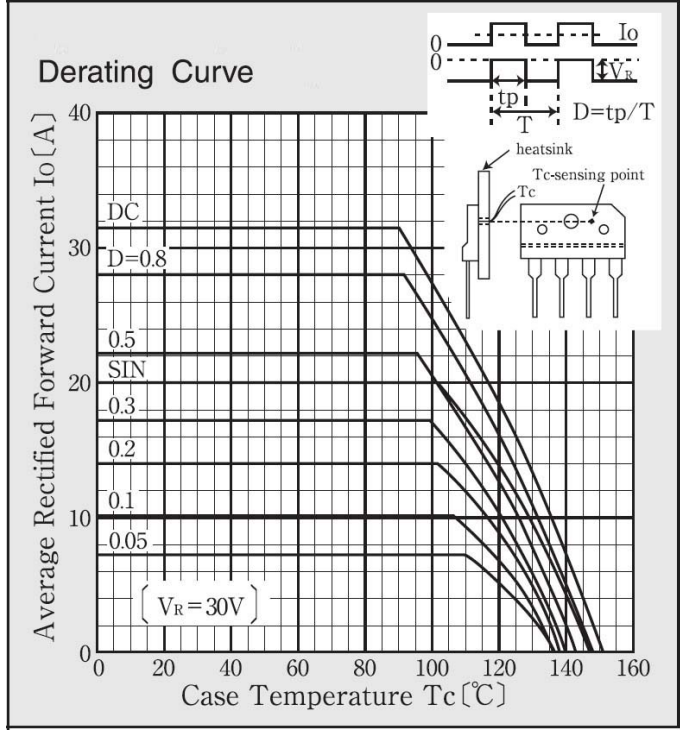
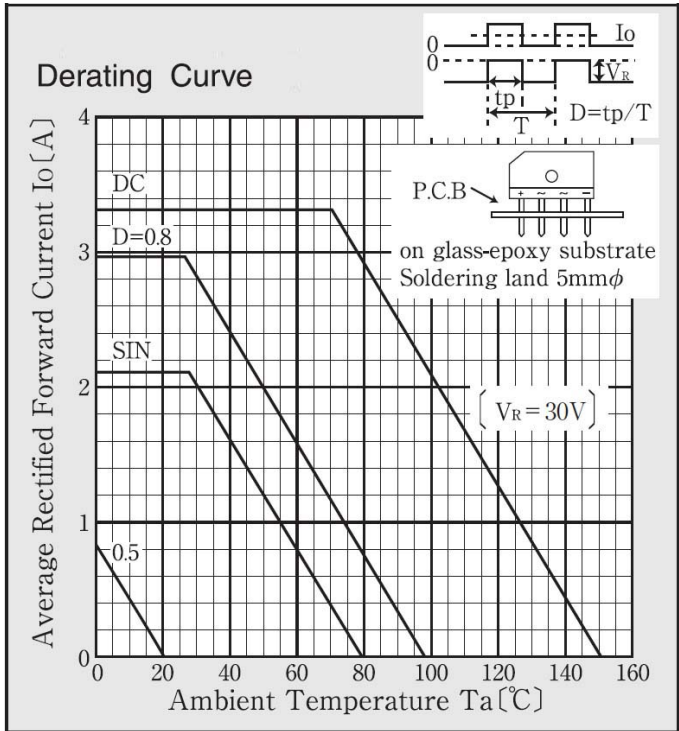
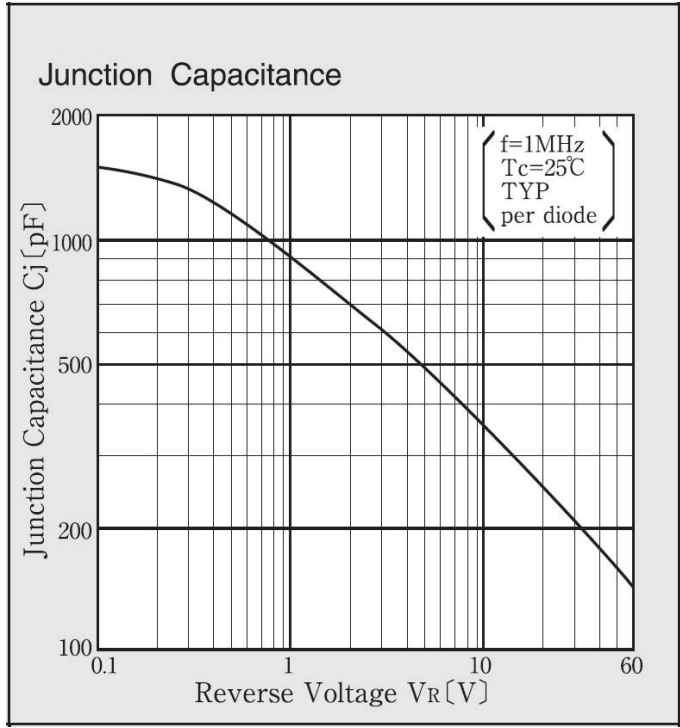
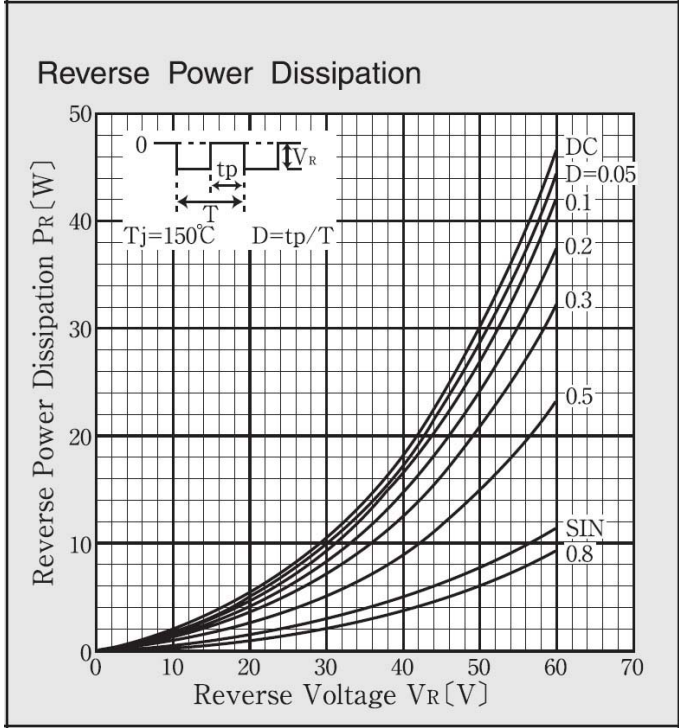
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=10A$, Pulse measurement, per diode			0.63	V
Reverse current	I_R	$V_R=60V$, Pulse measurement, per diode			8000	μA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$, per diode		370		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			1.5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-l)}$	Junction to lead			5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient			25	$^{\circ}C/W$

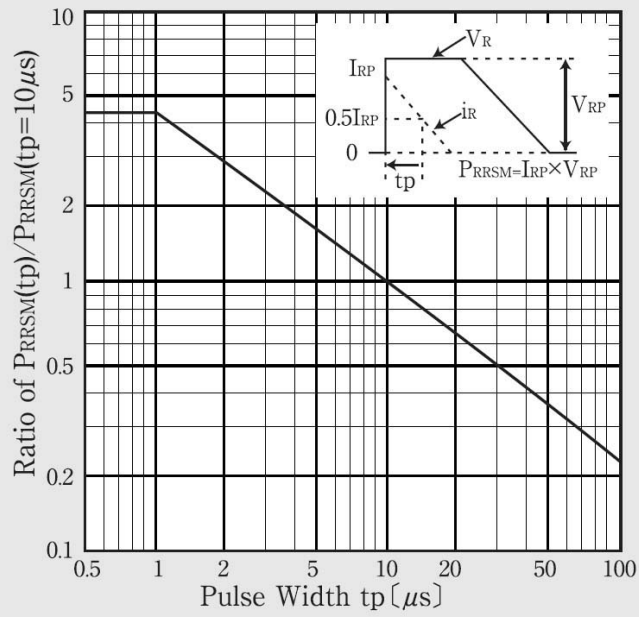
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

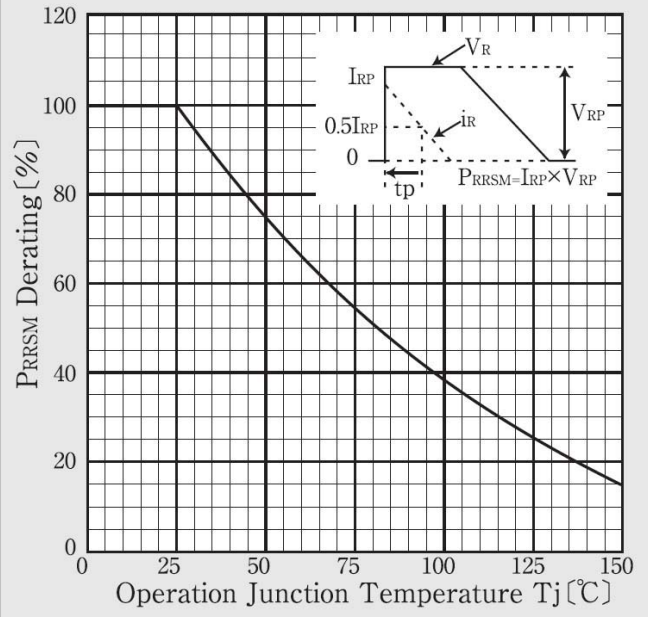




Repetitive Surge Reverse Power Capability

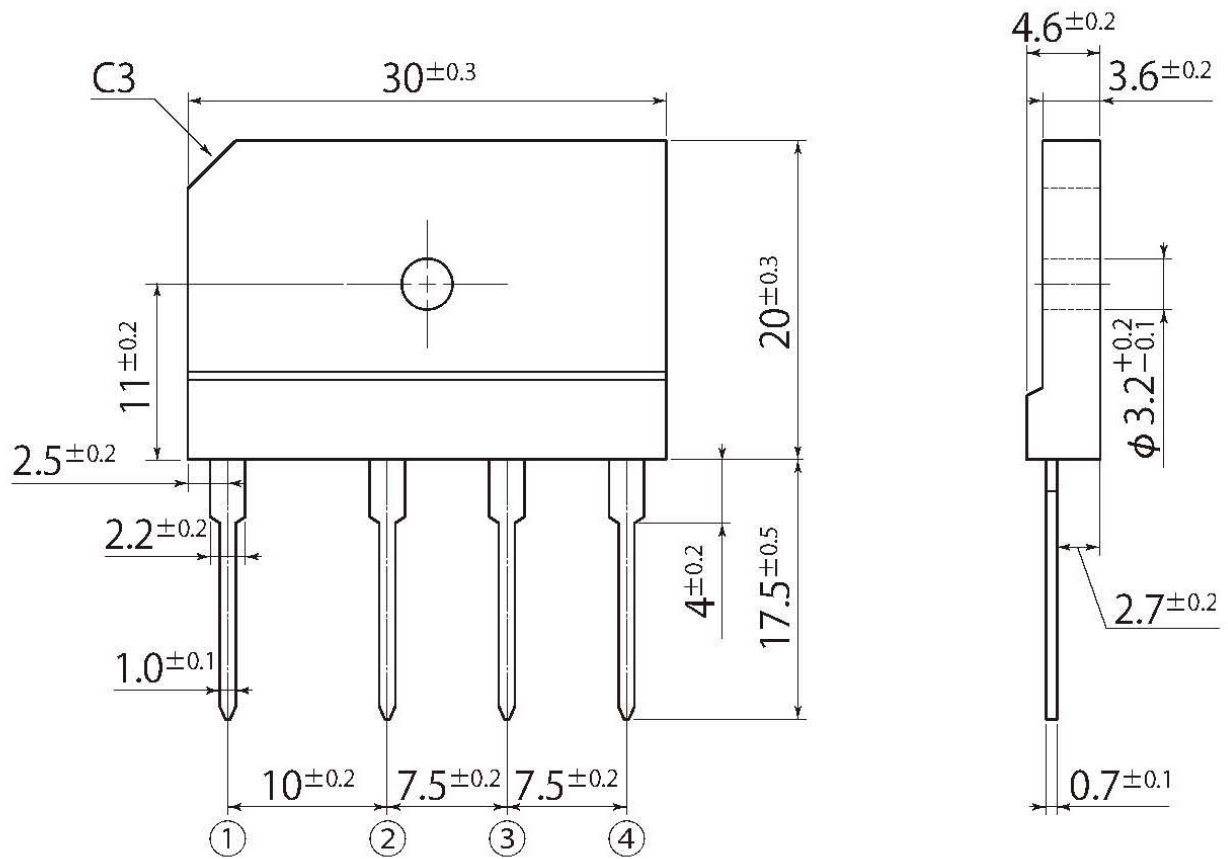


Repetitive Surge Reverse Power Derating Curve



D4

JEDEC Code	-
JEITA Code	-
House Name	5S



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