

D20XBS6

Bridge Diodes
60V, 20A

Feature

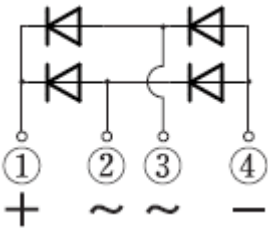
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : 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}		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, Tc=100°C	20	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Without heatsink, Ta=27°C	2.1	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	A
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, per diode, Tj=25°C	660	W
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

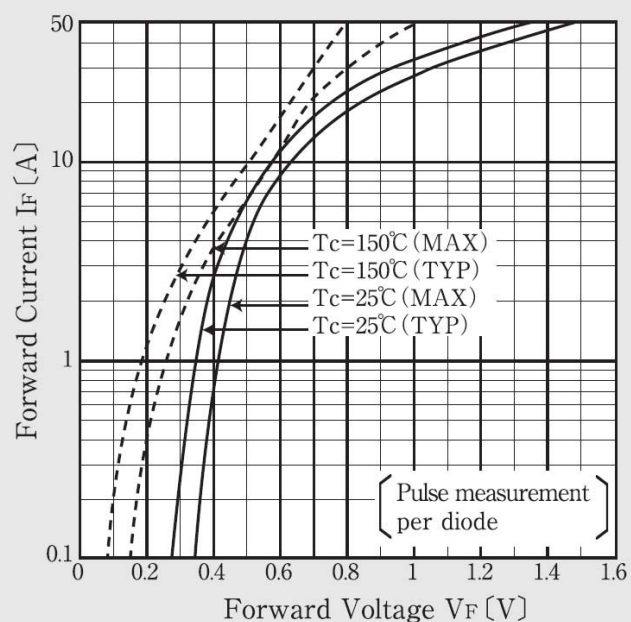
※ : See the original Specifications

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

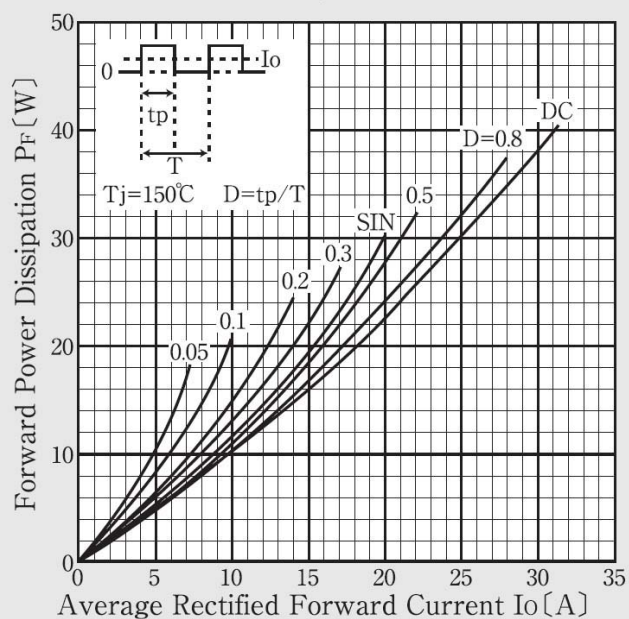
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=10A$, Pulse measurement, per diode			0.63	V
Reverse current	I_R	$V_R=60V$, Pulse measurement, per diode			8000	μA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$, per diode		370		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case, 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

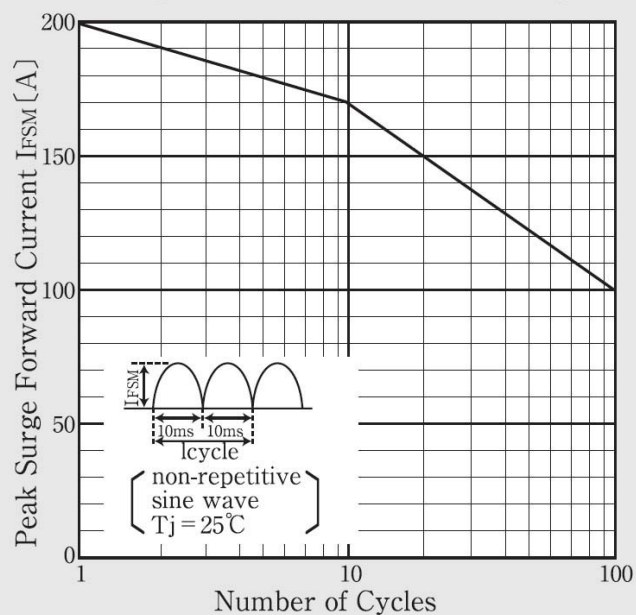
Forward Voltage



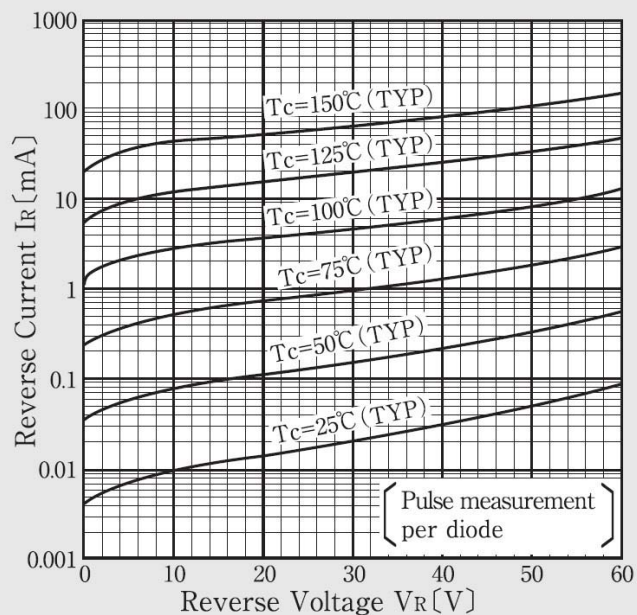
Forward Power Dissipation



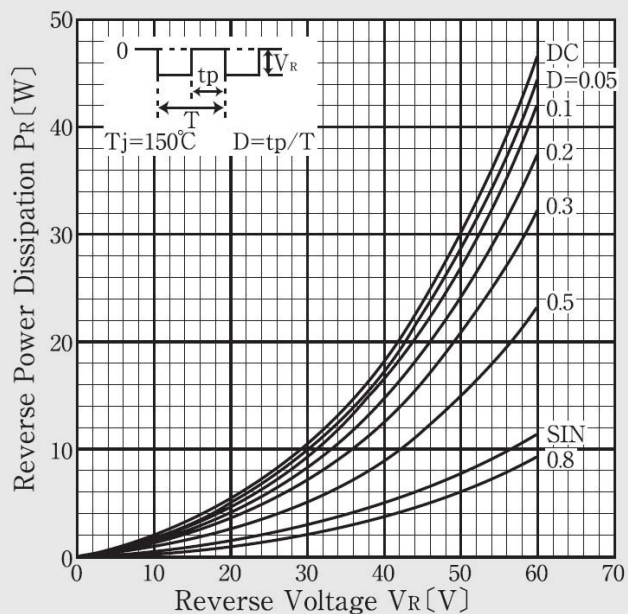
Peak Surge Forward Current Capability



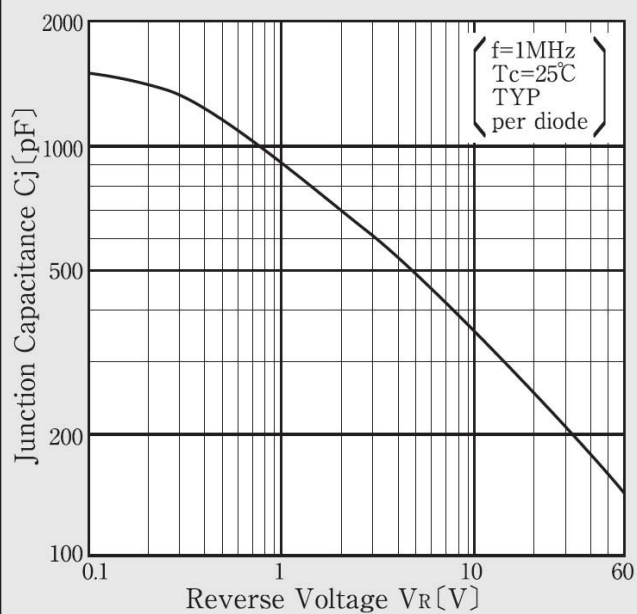
Reverse Current



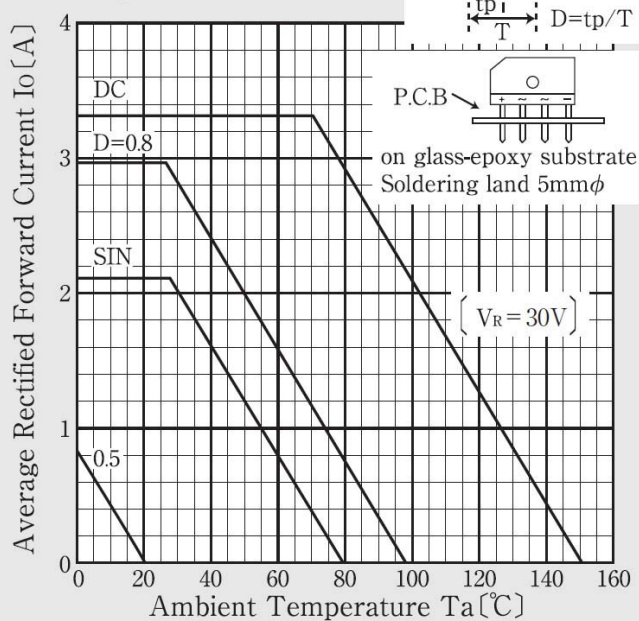
Reverse Power Dissipation



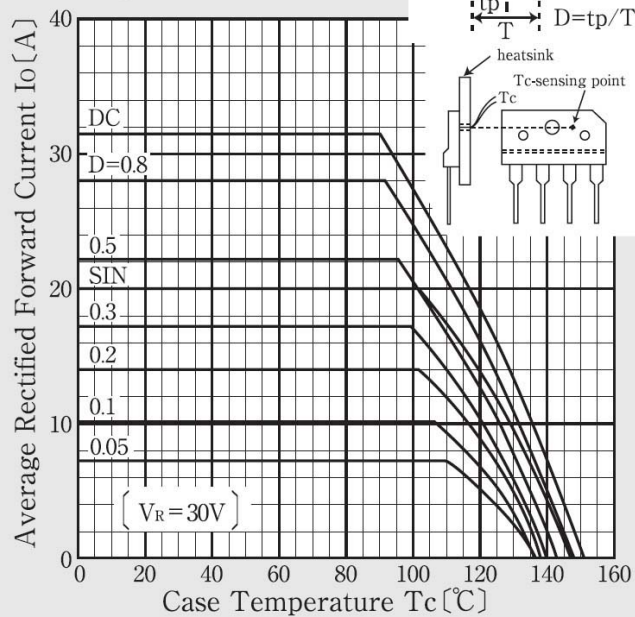
Junction Capacitance



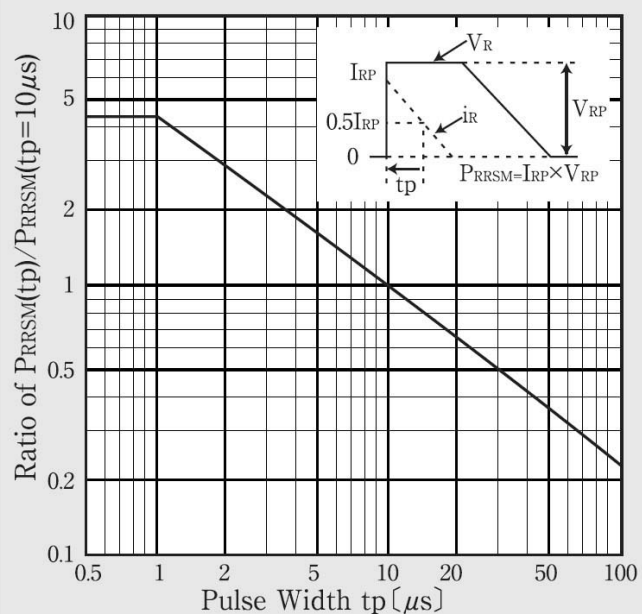
Derating Curve



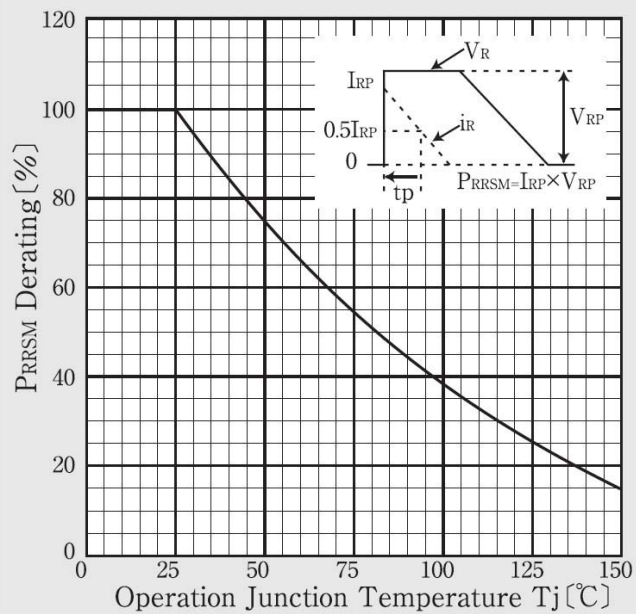
Derating Curve



Repetitive Surge Reverse Power Capability

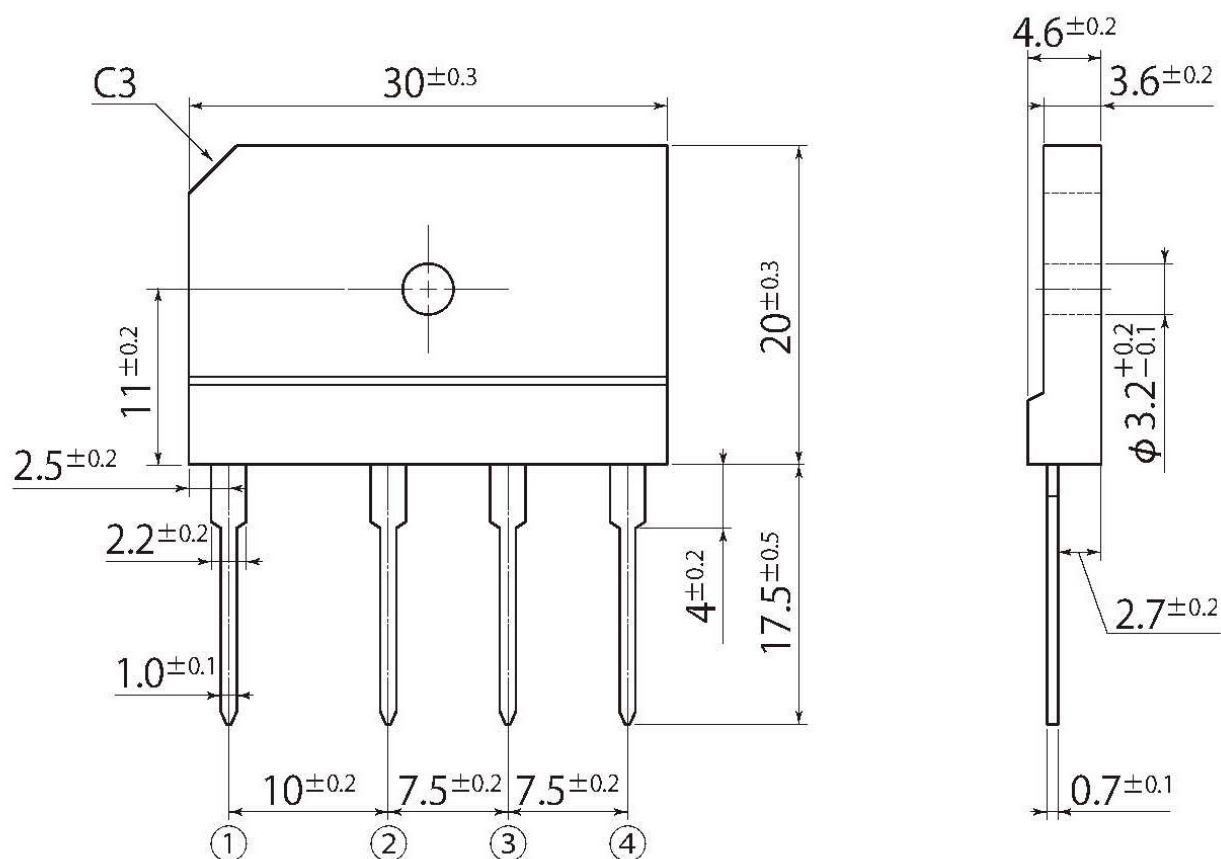


Repetitive Surge Reverse Power Derating Curve



D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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