ShinDengen

D20XBS6

Bridge Diodes
60V, 20A

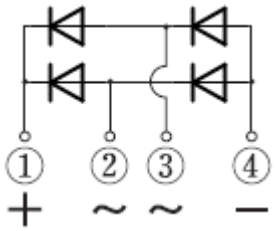
Feature

- 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℃)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	℃
Junction temperature	Tj		150	℃
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℃	20	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=27℃	2.1	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃	200	A
Repetitive peak surge reverse power	P_{RRSM}	Pulse width 10μs, per diode, Tj=25℃	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

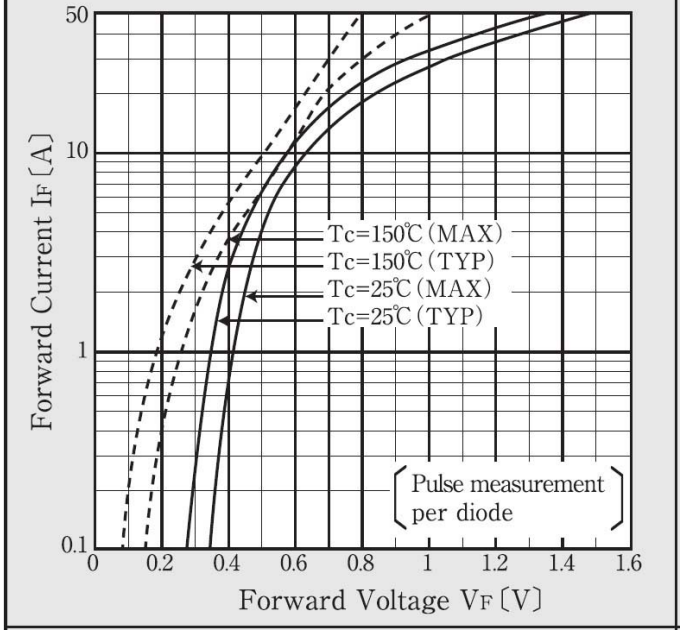
Electrical Characteristics (unless otherwise specified : Tc=25℃)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=10A, Pulse measurement, per diode			0.63	V
Reverse current	I_R	VR=60V, Pulse measurement, per diode			8000	μA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		370		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.5	℃/W
Thermal resistance	Rth(j-l)	Junction to lead			5	℃/W
Thermal resistance	Rth(j-a)	Junction to ambient			25	℃/W

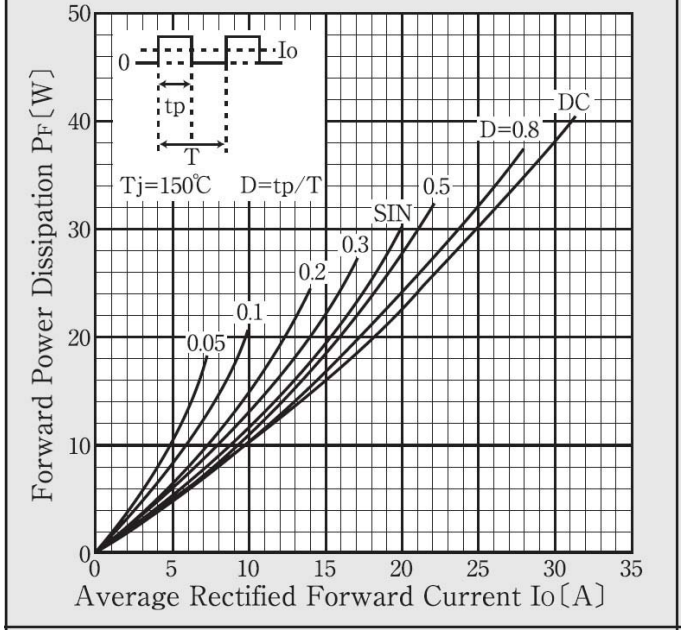
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

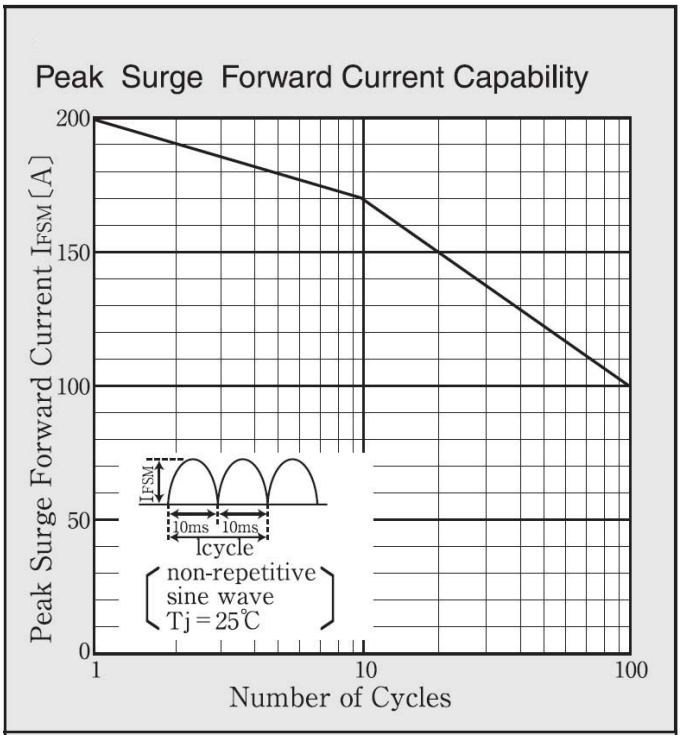
Forward Voltage



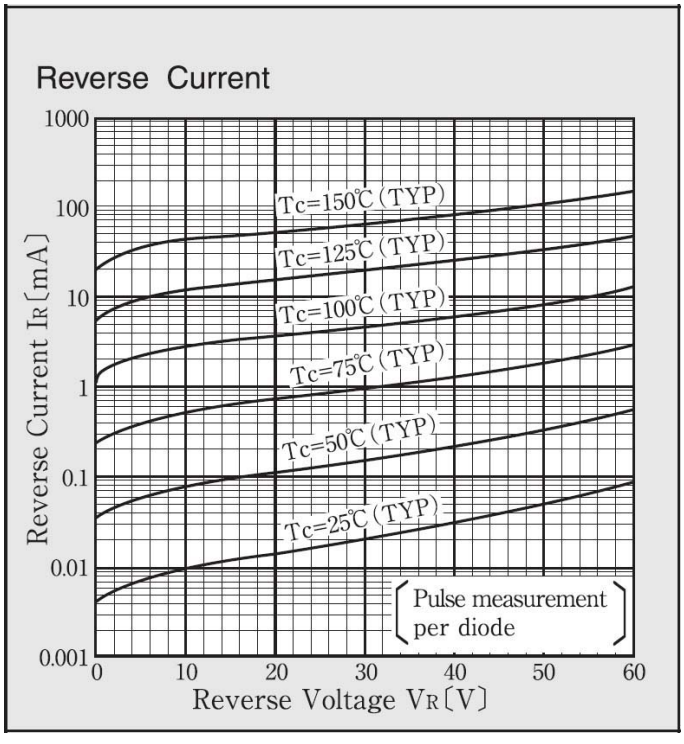
Forward Power Dissipation



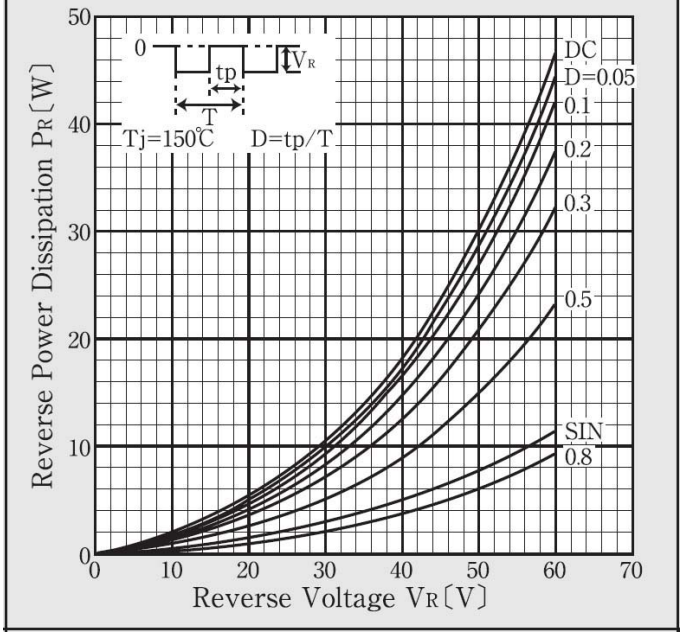
Peak Surge Forward Current Capability



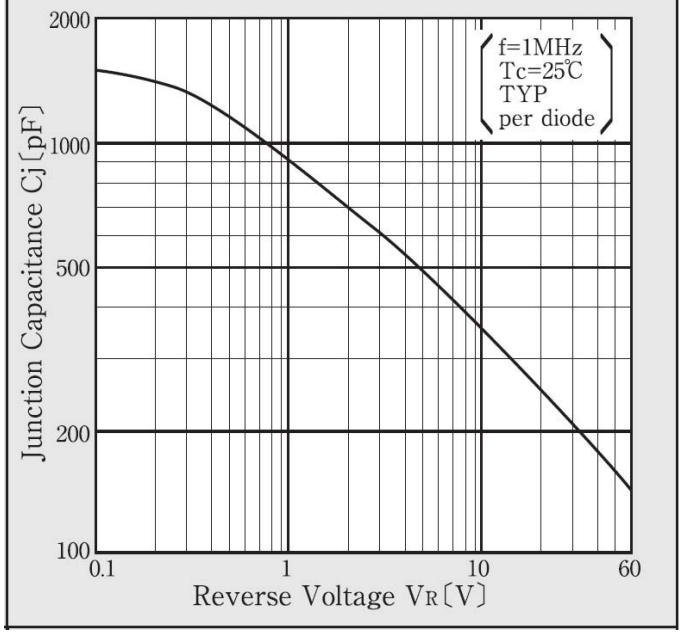
Reverse Current



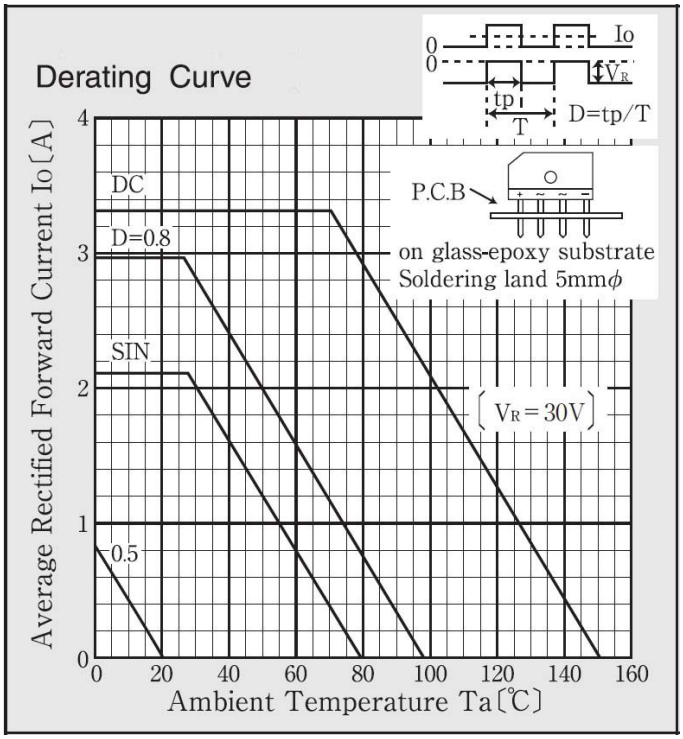
Reverse Power Dissipation



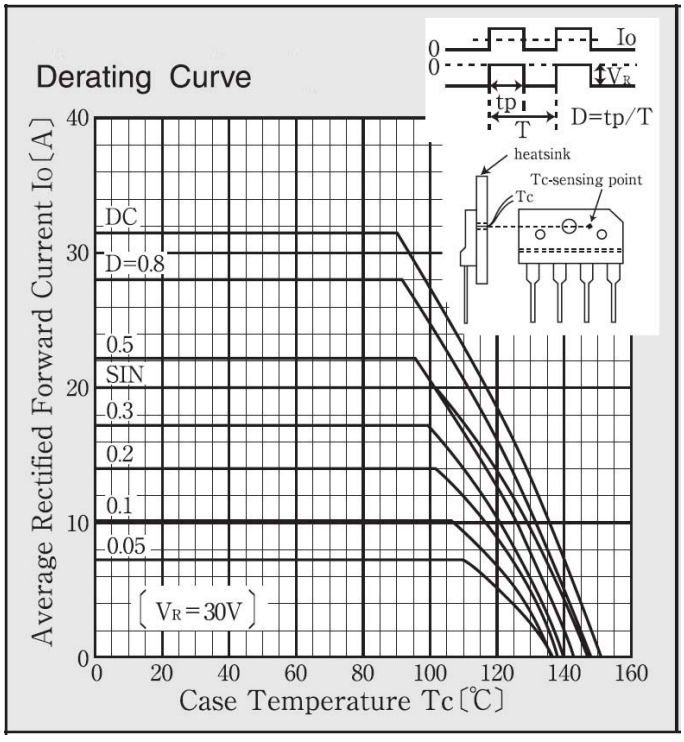
Junction Capacitance

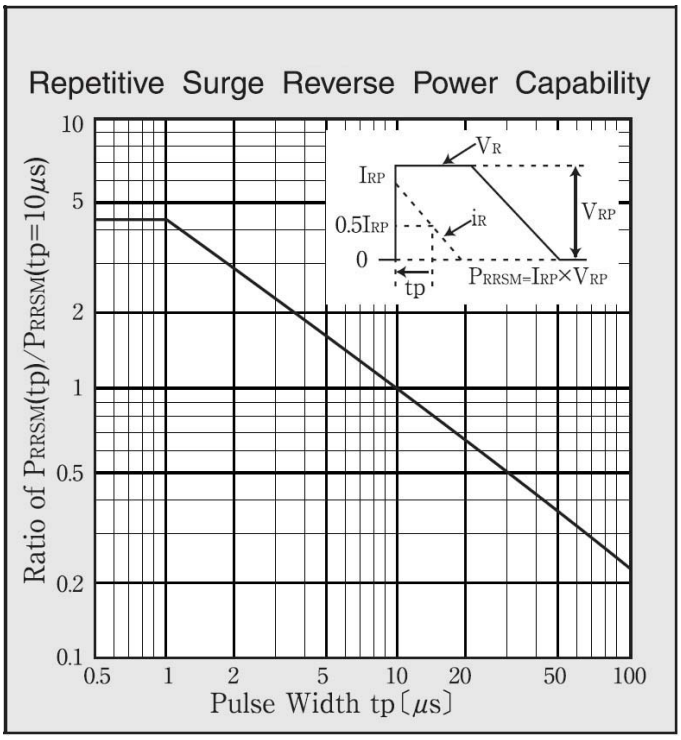


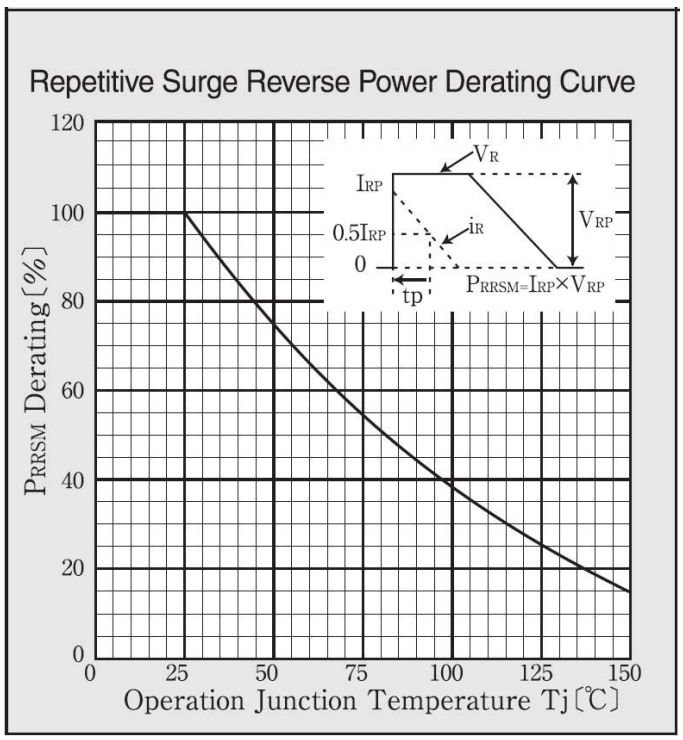
Derating Curve



Derating Curve




Repetitive Surge Reverse Power Capability
Ratio of PRRSM(tp)/PRRSM(tp=10μs)
10
5
2
1
0.5
0.2
0.1
0.5
1
2
5
10
20
50
100
Pulse Width tp〔μs〕
VR
IRP
0.5IRP
iR
VRP
0
tp
PRRSM=IRP×VRP

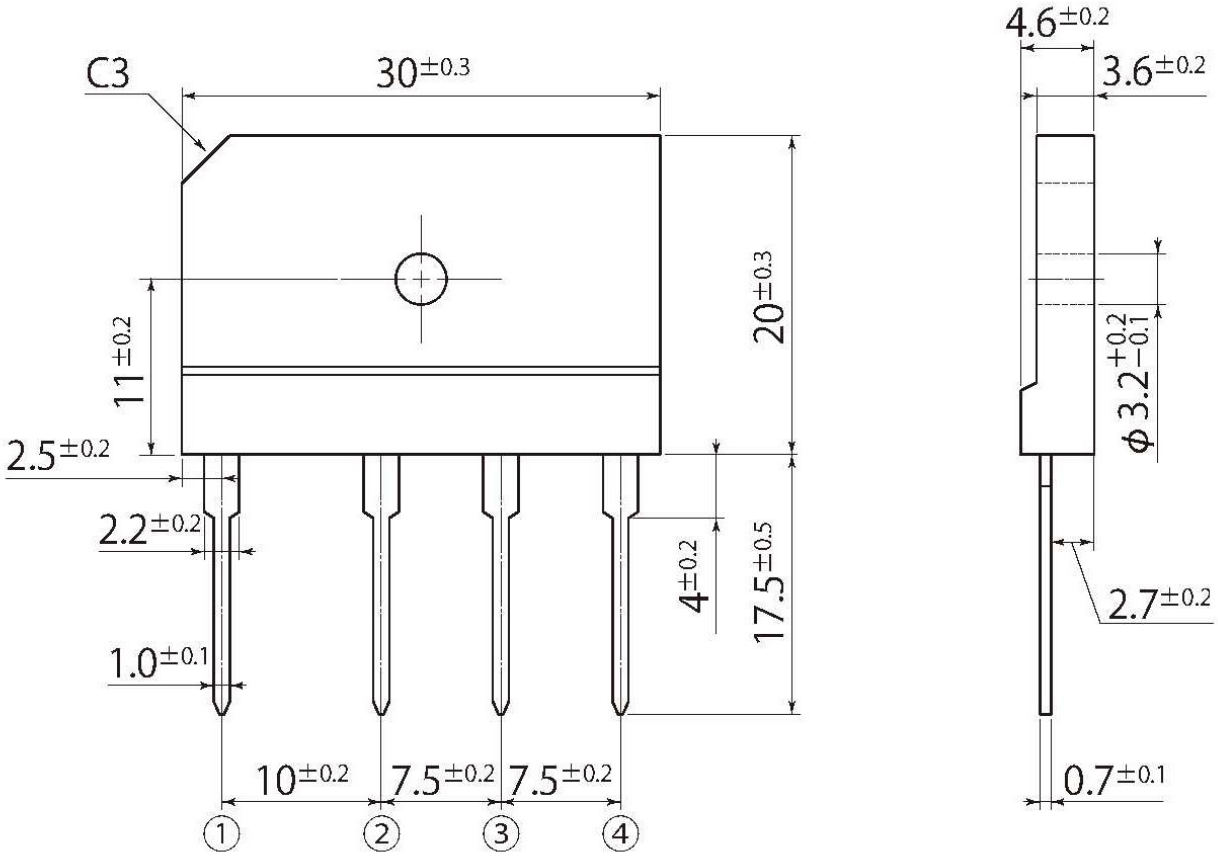

Repetitive Surge Reverse Power Derating Curve
PRRSM Derating〔%〕
120
100
80
60
40
20
0
0
25
50
75
100
125
150
Operation Junction Temperature Tj〔℃〕
VR
IRP
0.5IRP
iR
VRP
0
tp
PRRSM=IRP×VRP

Outline Dimensions

unit:mm

D4

JEDEC Code	–
JEITA Code	–
House Name	5S



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