ShinDengen

D15XBN20

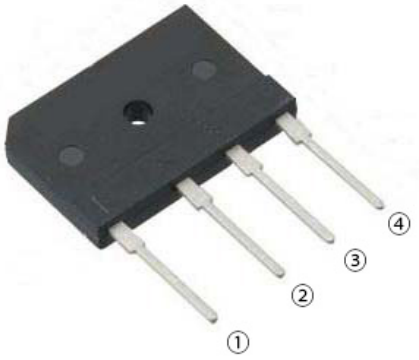
Bridge Diodes
200V, 15A

Feature

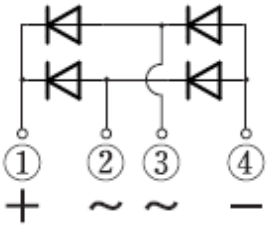
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low V_F
- Low I_R
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : 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}		200	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=106°C	15	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=27°C	3.3	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	A
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

※ :See the original Specifications

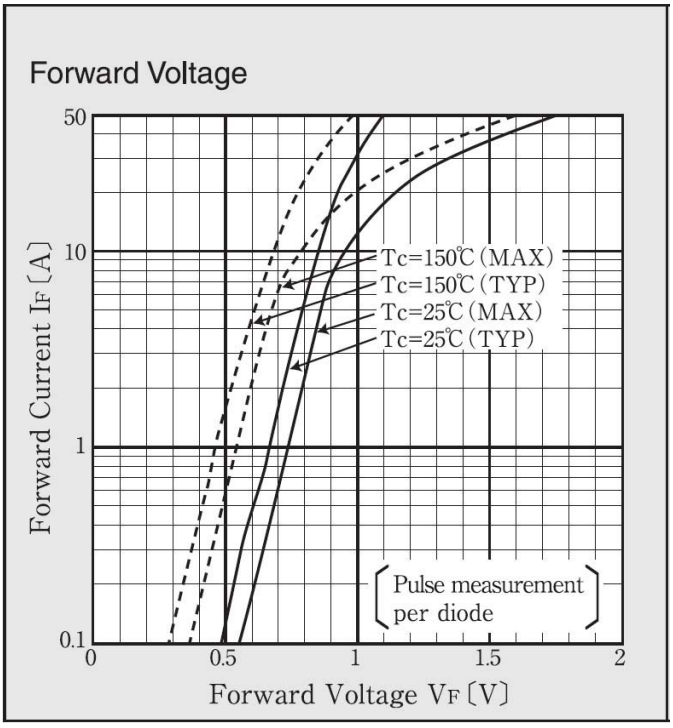
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=7.5A, Pulse measurement, per diode			0.9	V
Reverse current	I_R	VR=200V, Pulse measurement, per diode			5	μA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		190		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

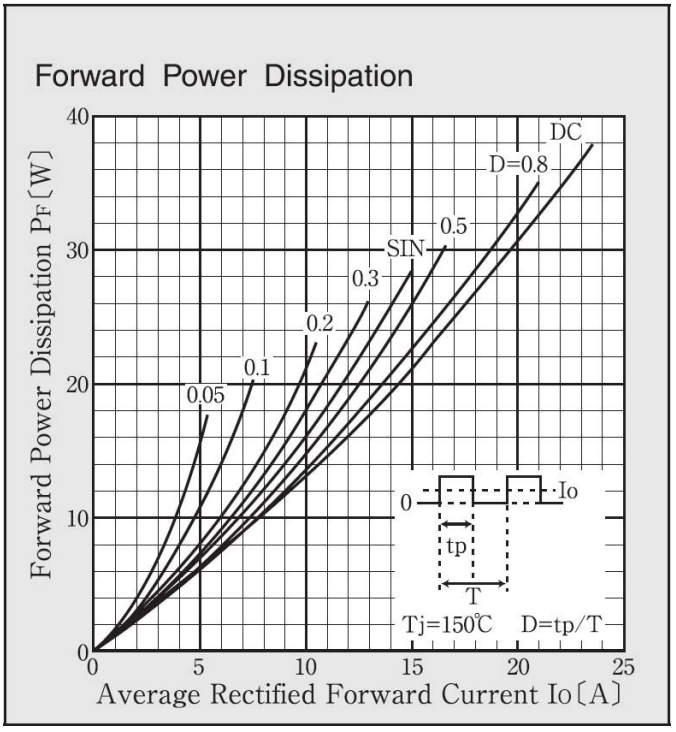
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

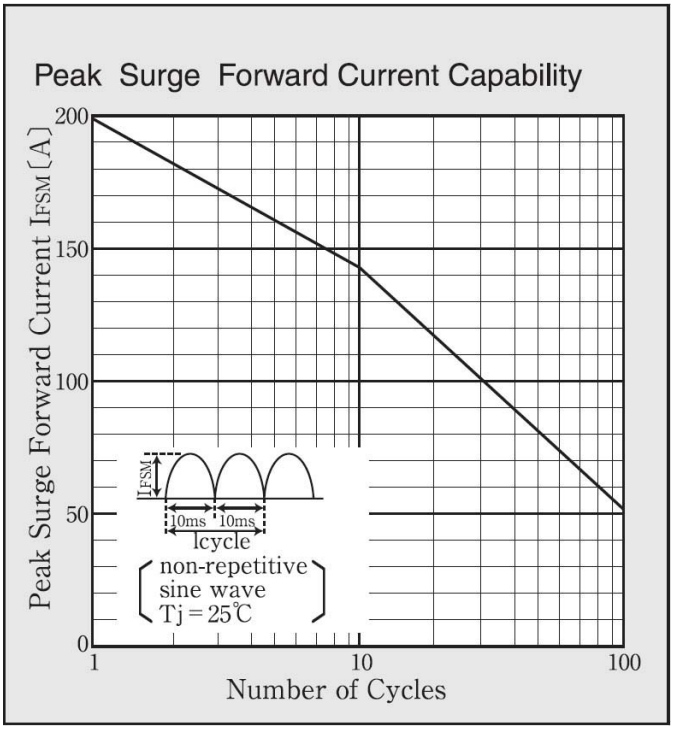
Forward Voltage



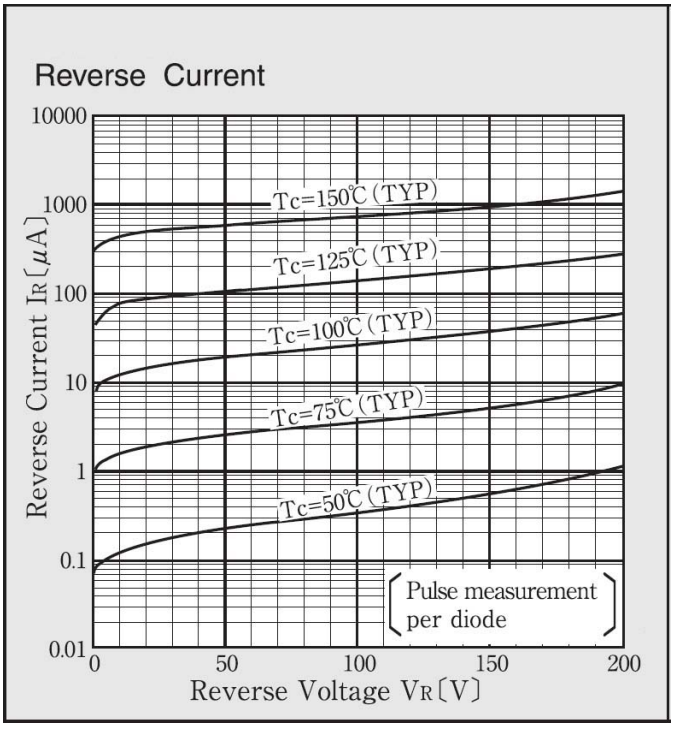
Forward Power Dissipation



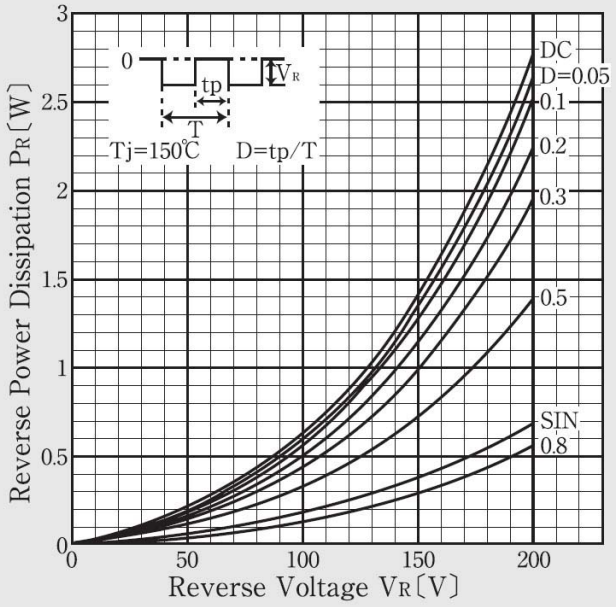
Peak Surge Forward Current Capability



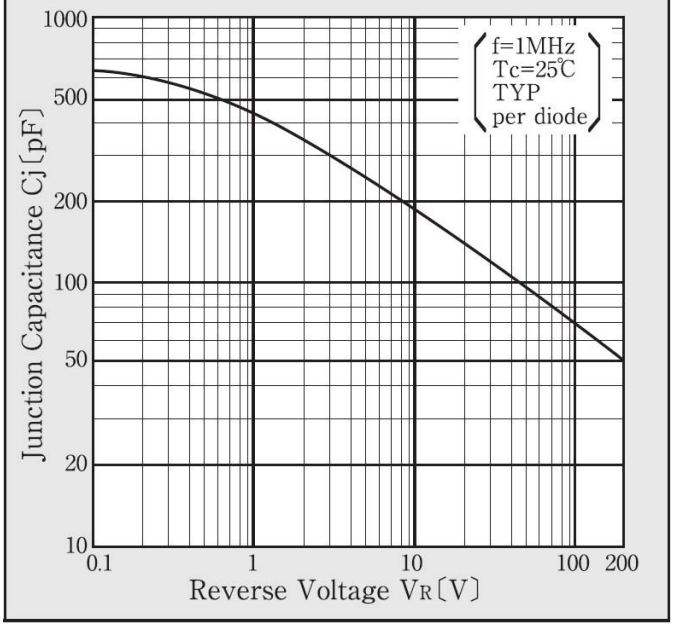
Reverse Current



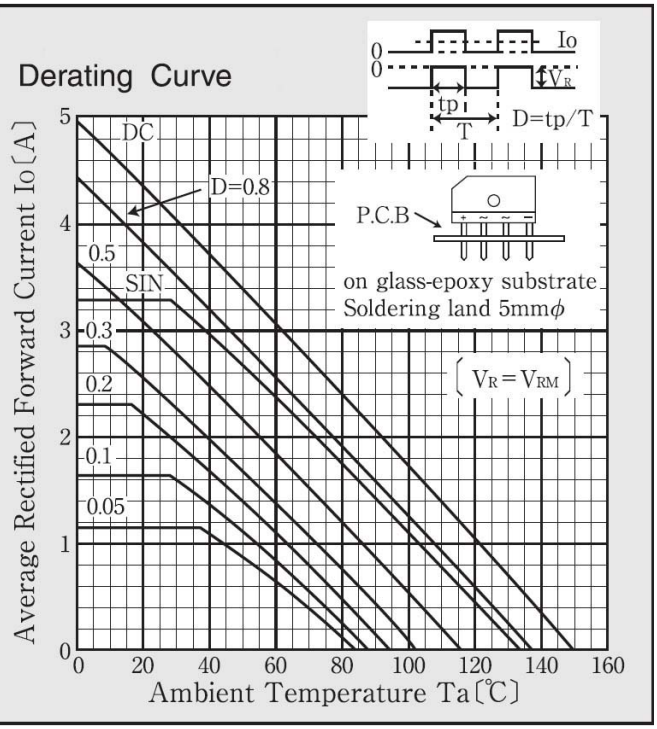
Reverse Power Dissipation



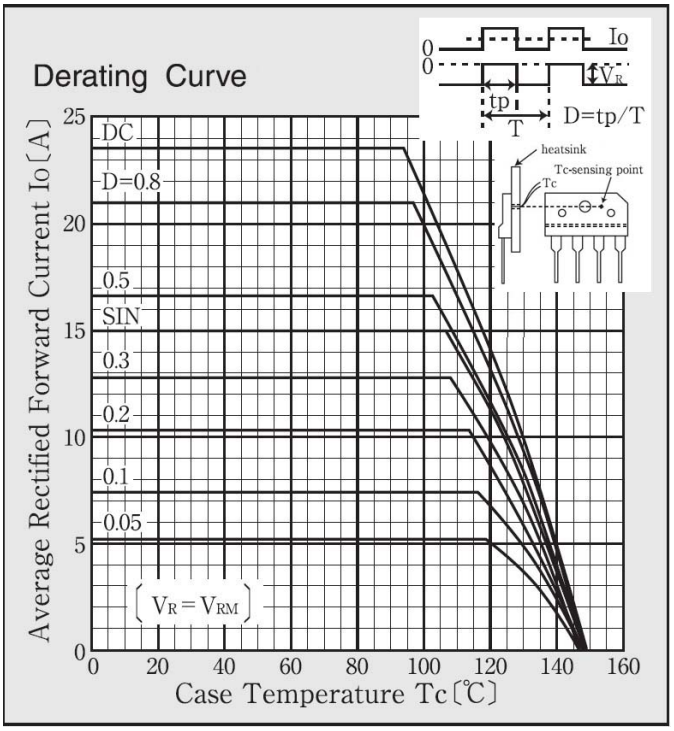
Junction Capacitance



Derating Curve



Derating Curve

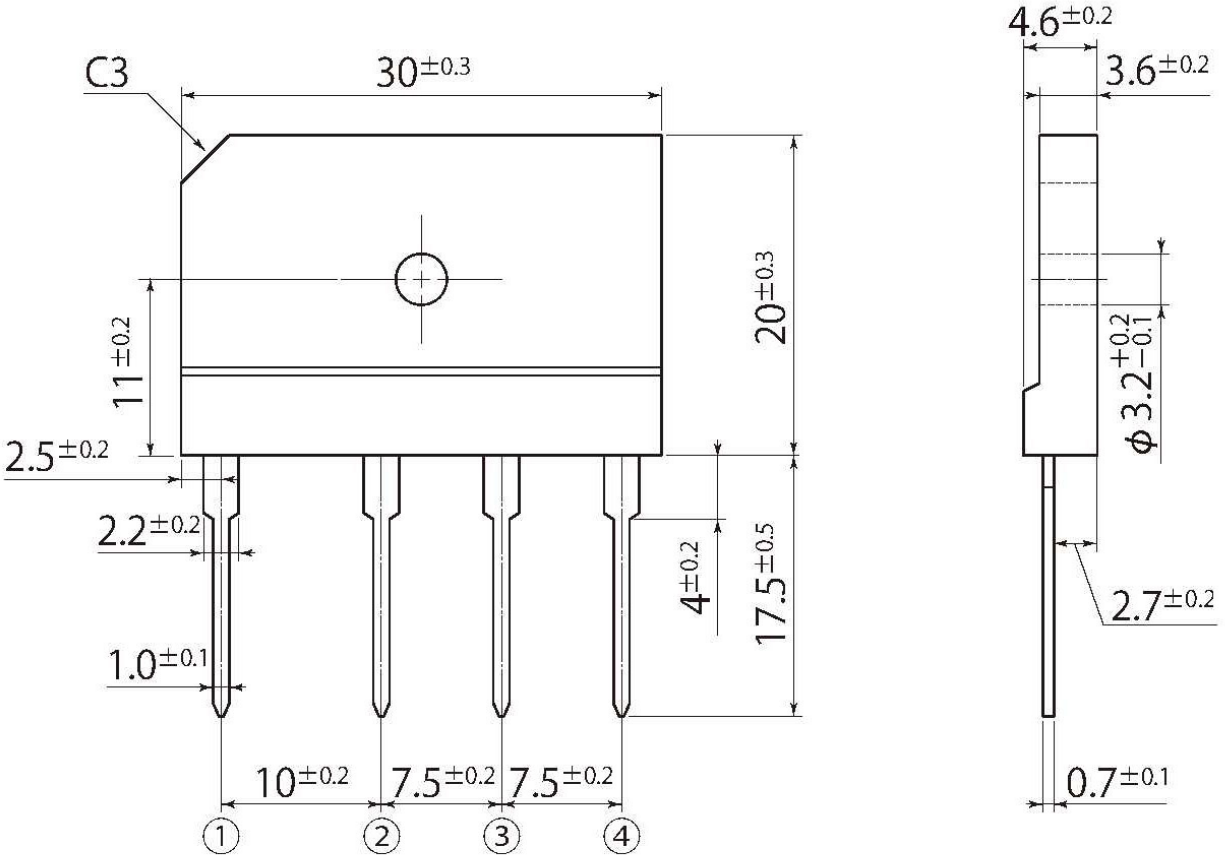


Outline Dimensions

unit:mm

D4

JEDEC Code	–
JEITA Code	–
House Name	5S



Notes

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