ShinDengen

D10SBS4

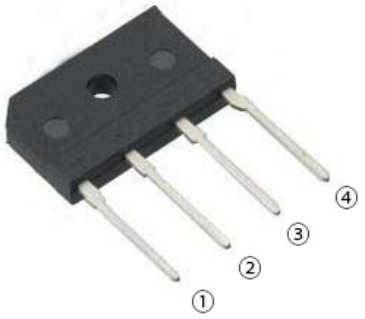
Bridge Diodes
40V, 10A

Feature

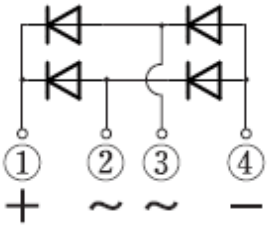
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 3S



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}		40	V
Non-repetitive peak reverse voltage	V_{RSM}	Pulse width 0.5ms, Duty 1/40	45	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=67°C	10	A
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	3.4	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	100	A
Repetitive peak surge reverse power	P_{RRSM}	Pulse width 10µs, per diode, Tj=25°C	330	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

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=5A, Pulse measurement, per diode			0.55	V
Reverse current	I_R	VR=40V, Pulse measurement, per diode			3500	μA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		180		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			5.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink			6	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			30	°C/W

※ ：See the original Specifications

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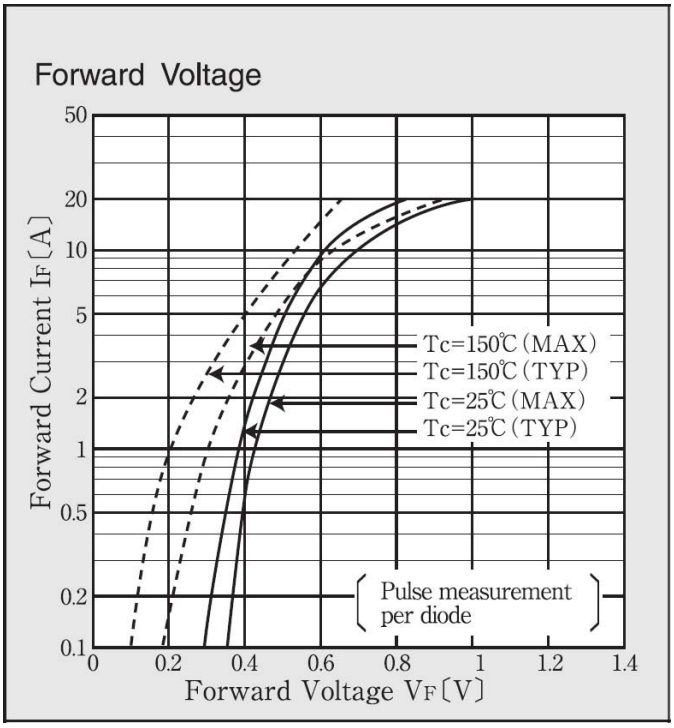
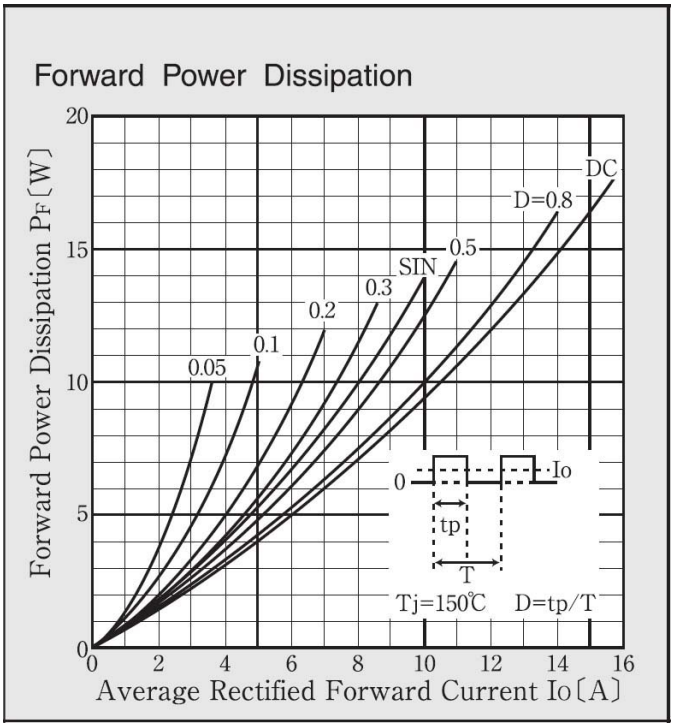
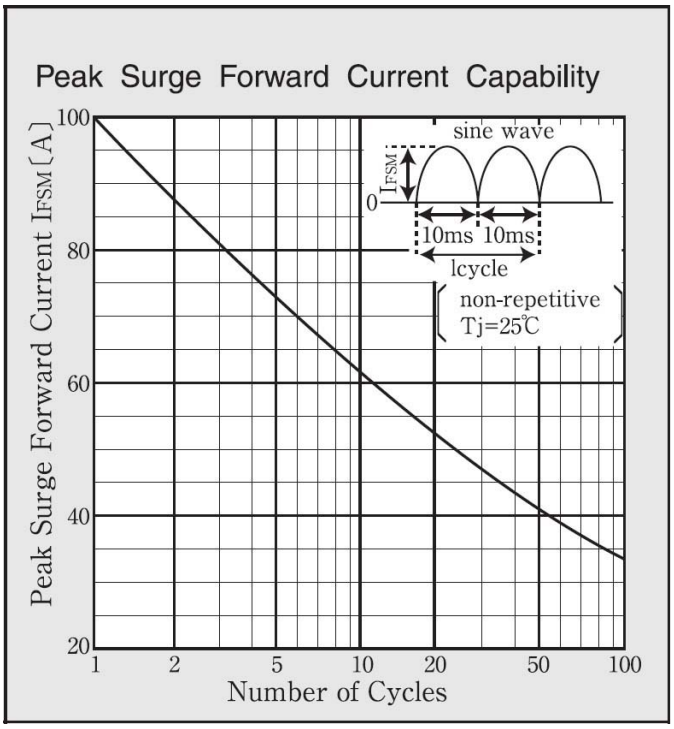
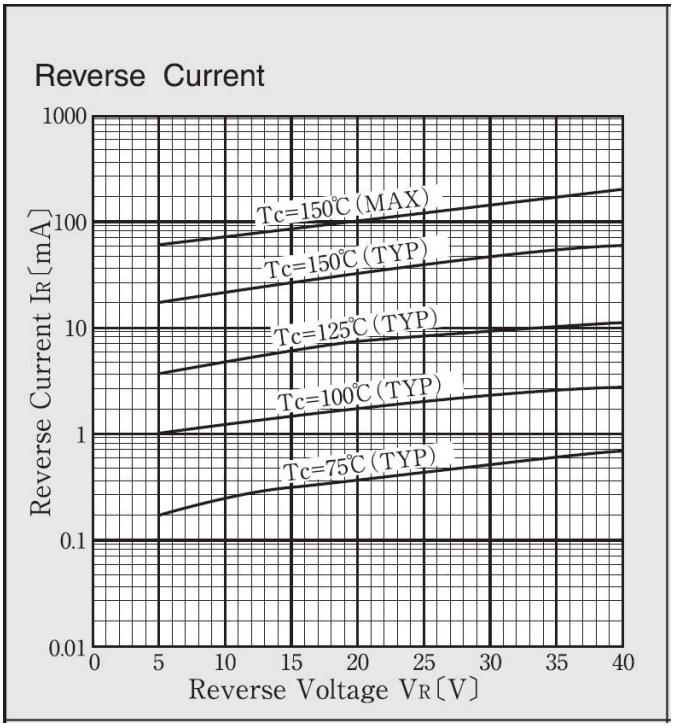
CHARACTERISTIC DIAGRAMS









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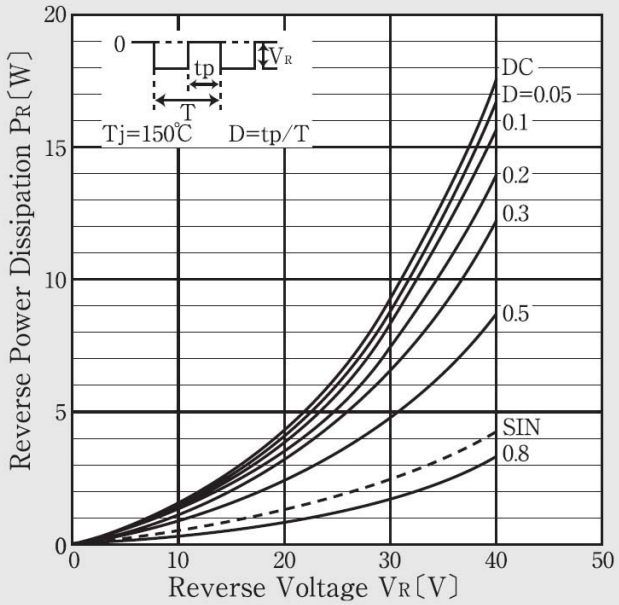
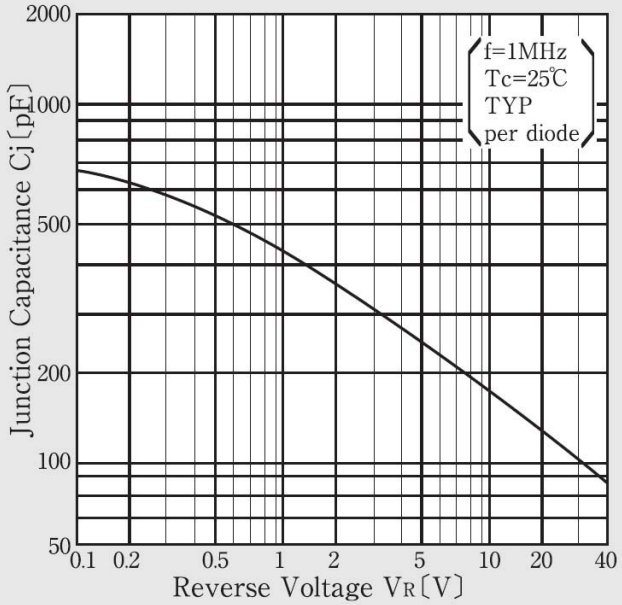
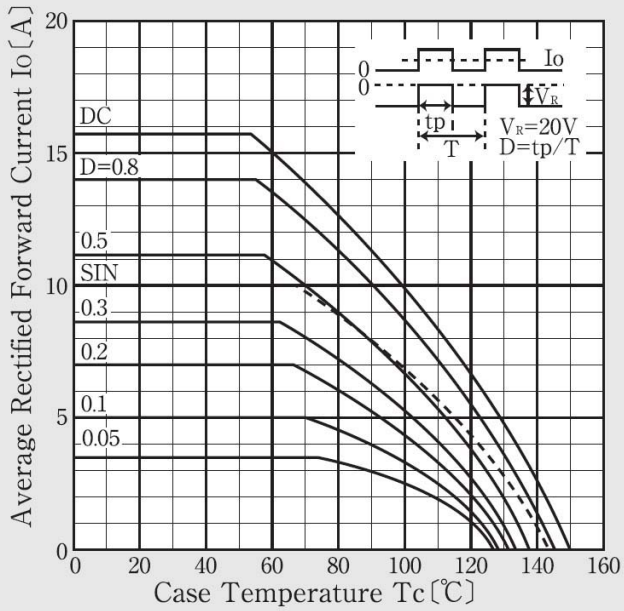
Reverse Power Dissipation



Junction Capacitance



Derating Curve



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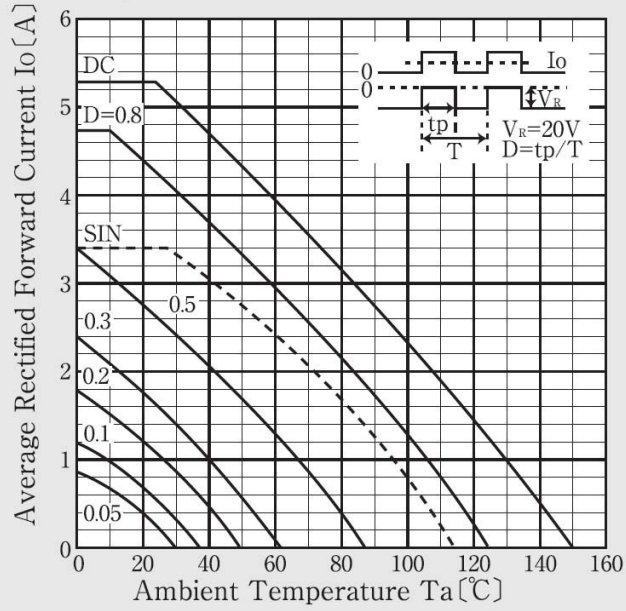

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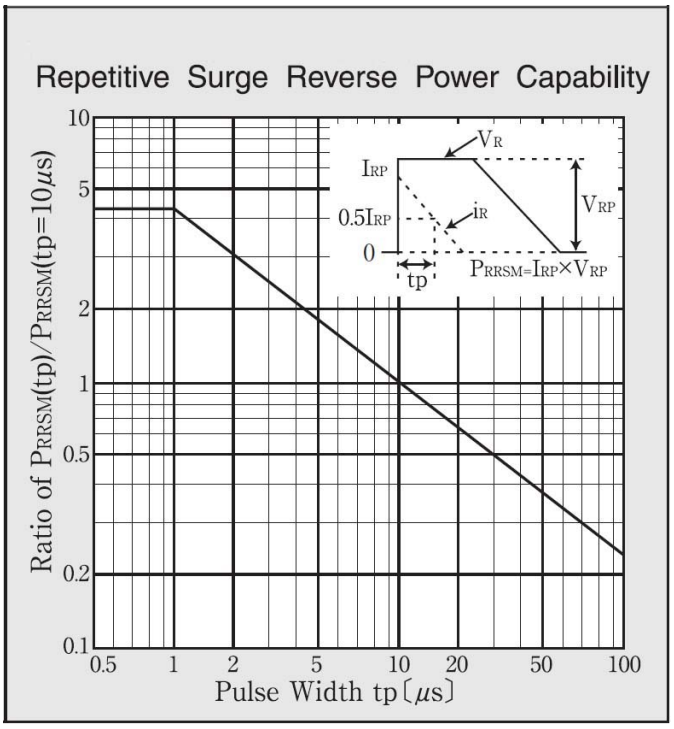

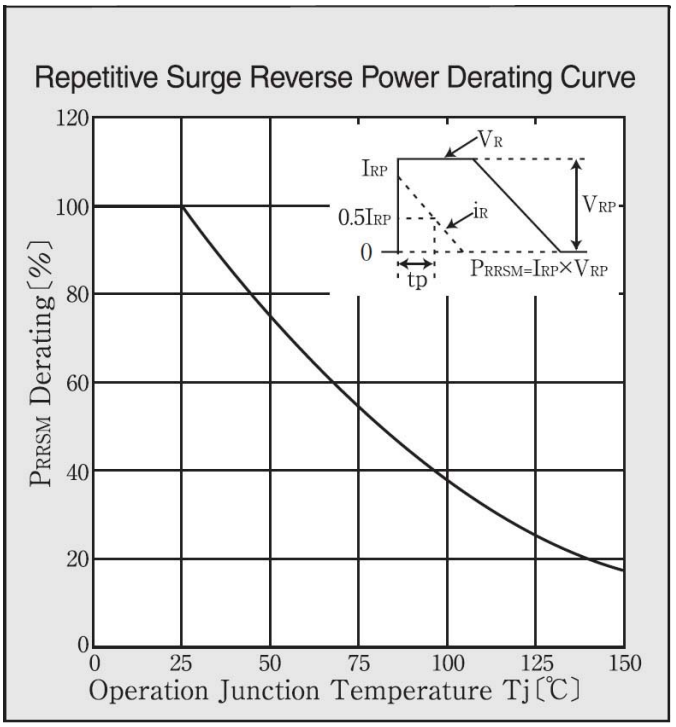

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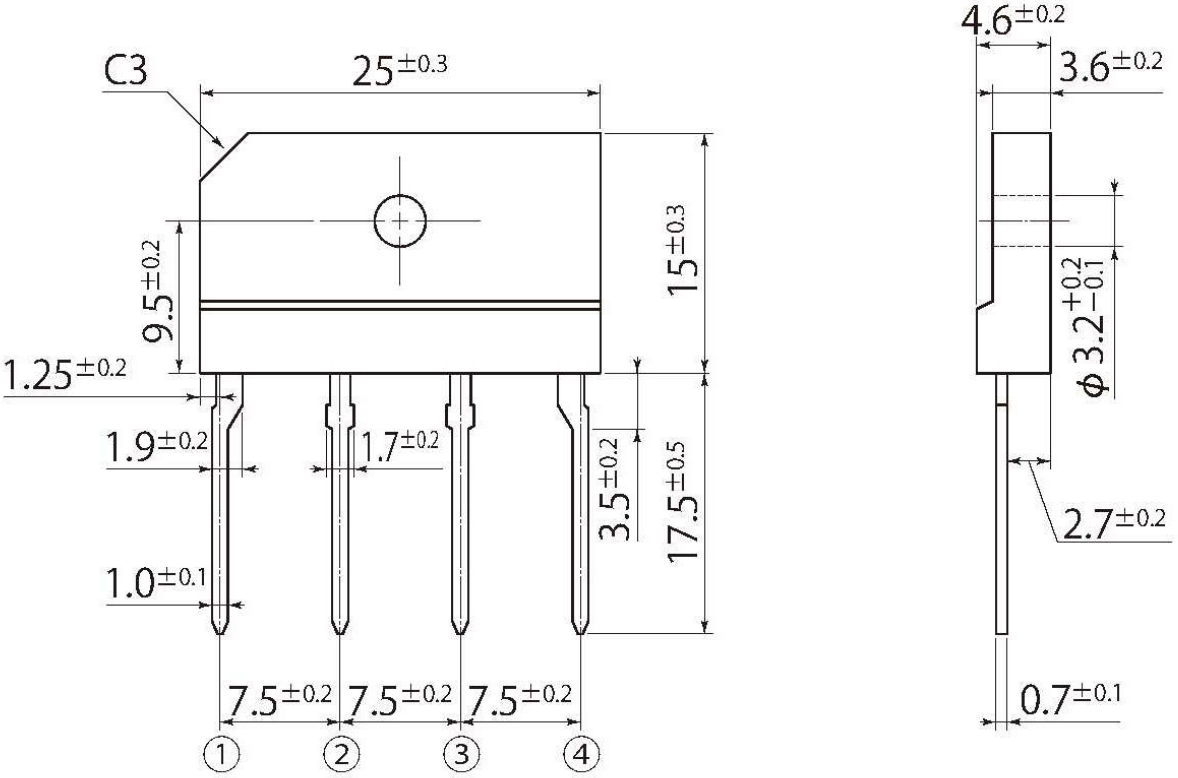
Outline Dimensions

unit:mm

D3

JEDEC Code	–
JEITA Code	–
House Name	3S



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