

D10SBS4

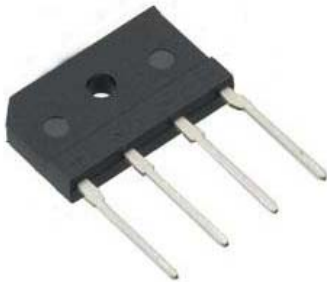
Bridge Diodes
40V, 10A

Feature

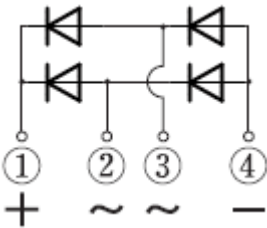
- Compact SIP
- SBD Bridge
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

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

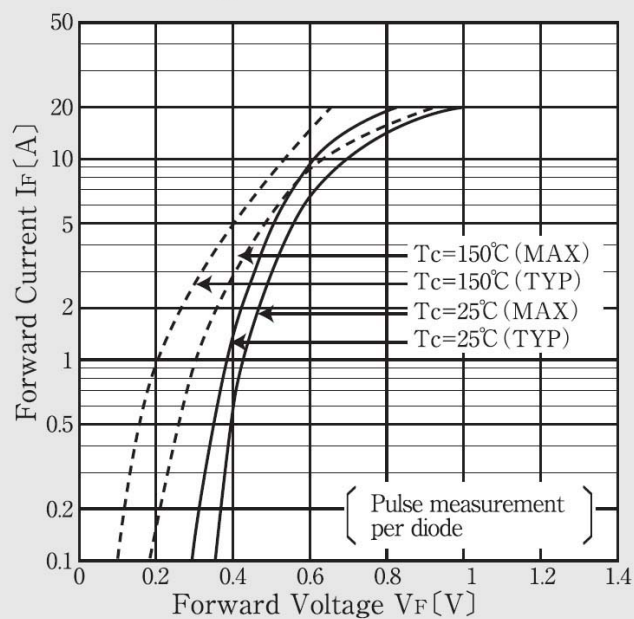
※ :See the original Specifications

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

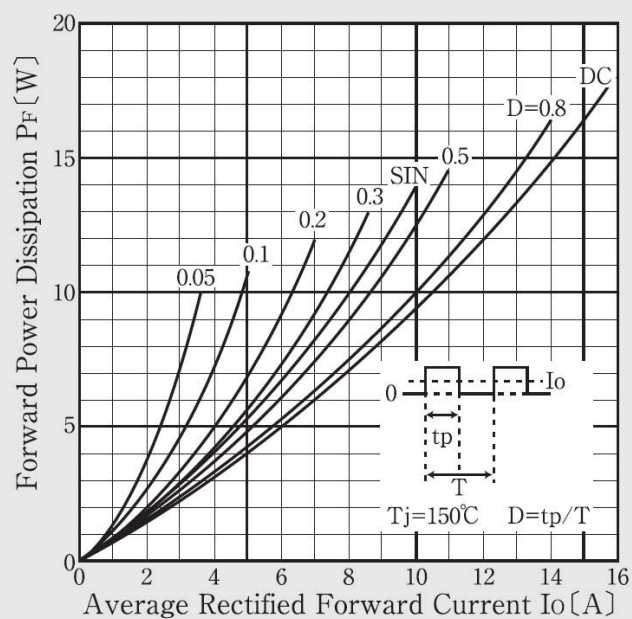
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=5A$, Pulse measurement, per diode			0.55	V
Reverse current	I_R	$V_R=40V$, Pulse measurement, per diode			3500	μA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$, per diode		180		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			5.5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-l)}$	Junction to lead, Without heatsink			6	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, Without heatsink			30	$^{\circ}C/W$

※ :See the original Specifications

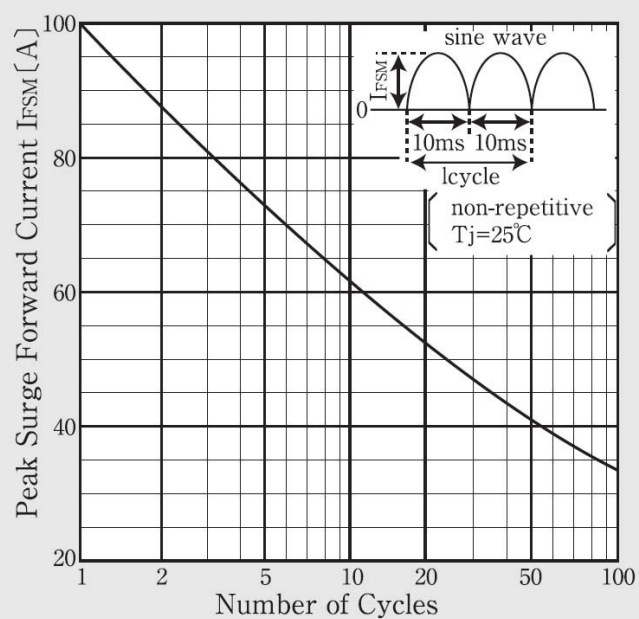
Forward Voltage



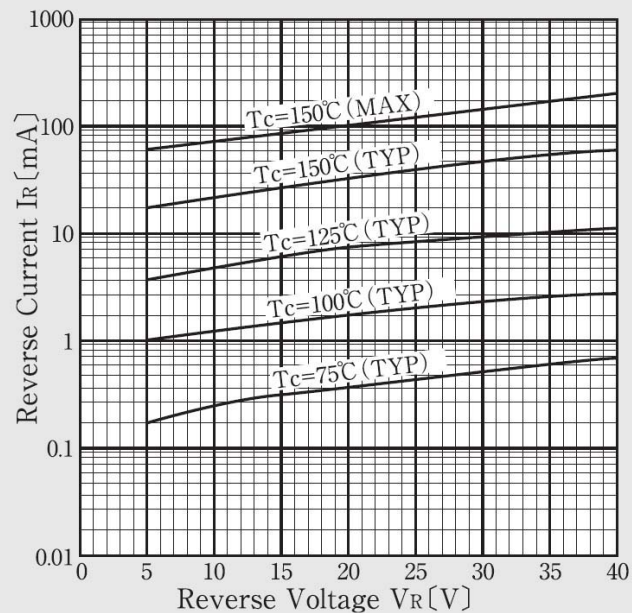
Forward Power Dissipation

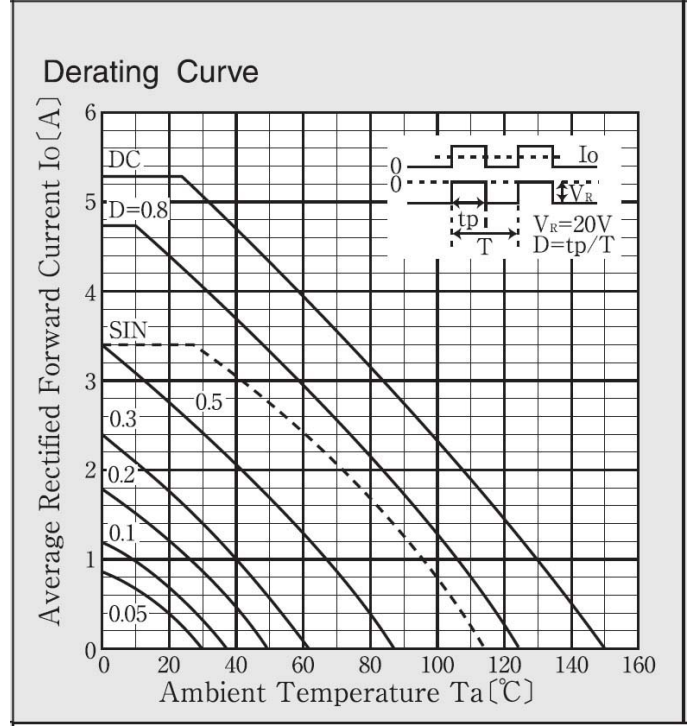
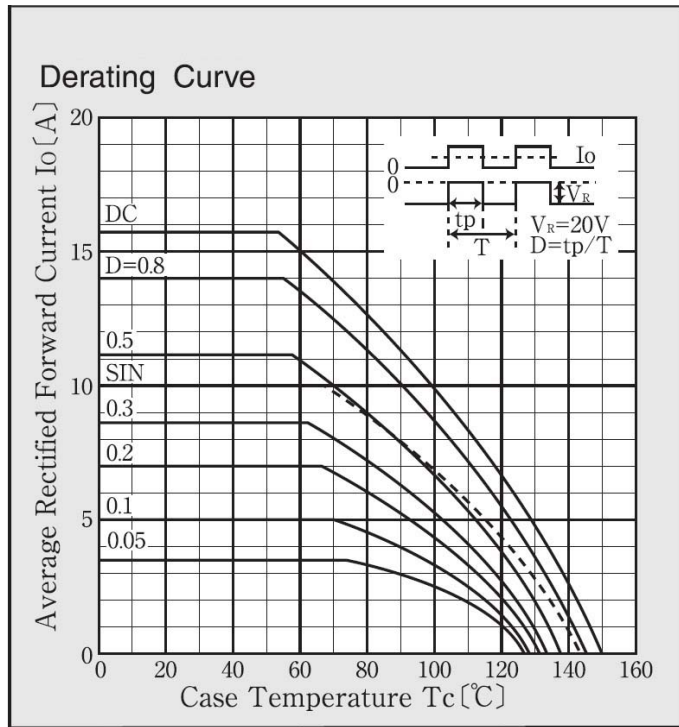
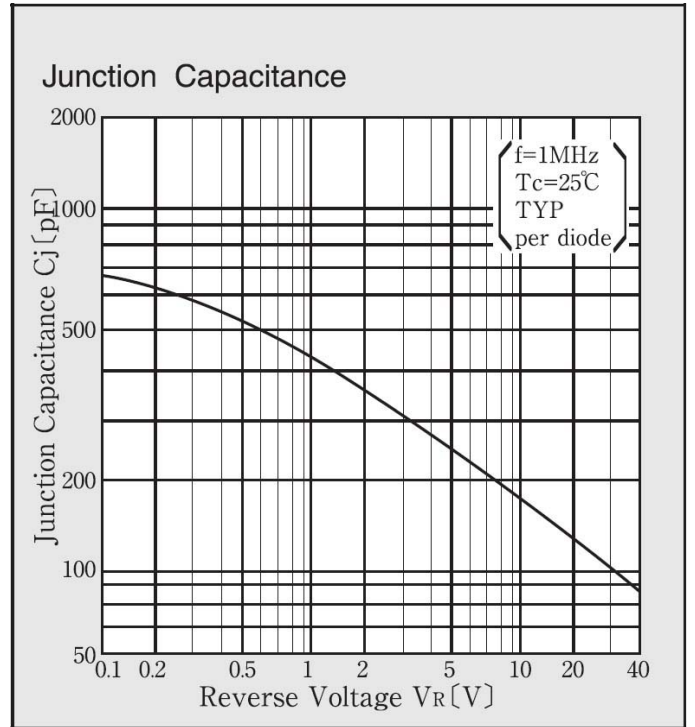
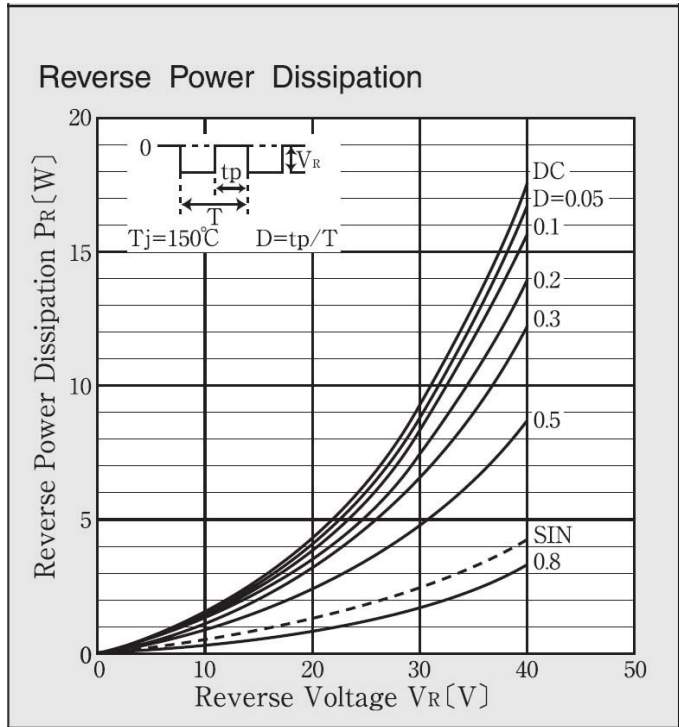


Peak Surge Forward Current Capability

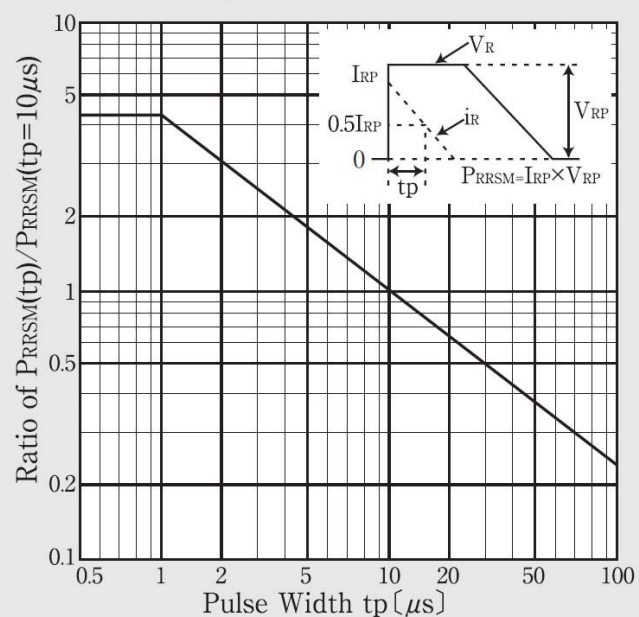


Reverse Current

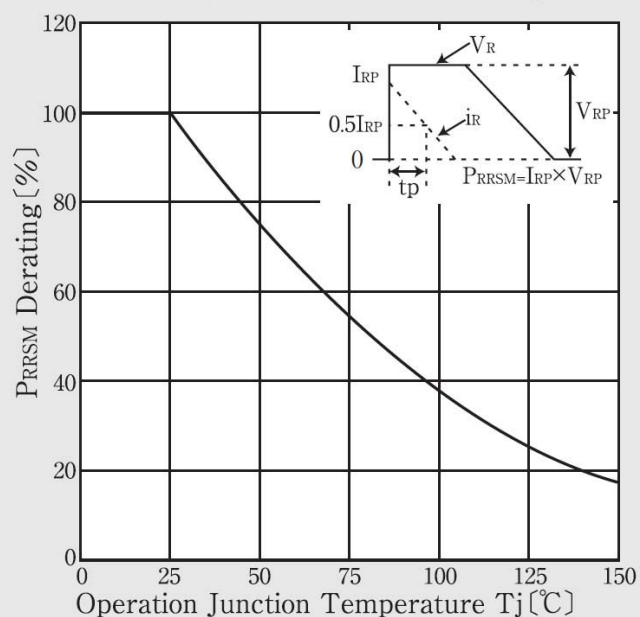




Repetitive Surge Reverse Power Capability

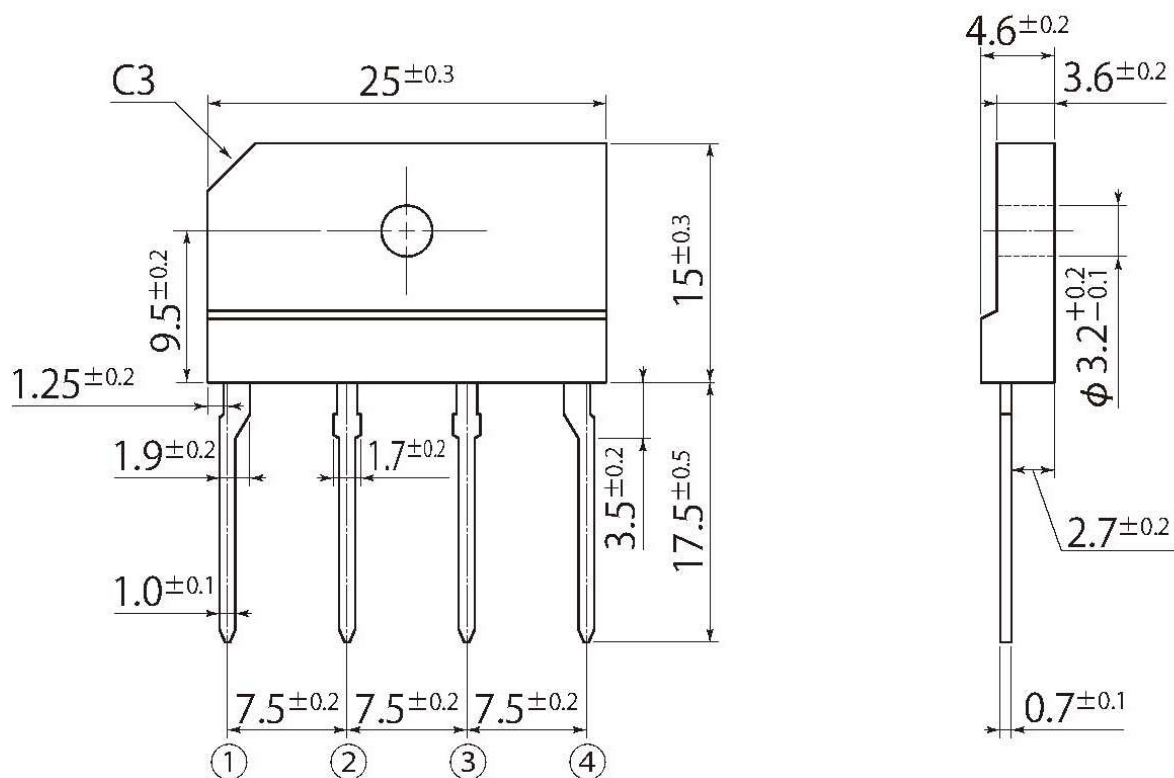


Repetitive Surge Reverse Power Derating Curve



D3

JEDEC Code	—
JEITA Code	—
House Name	3S



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