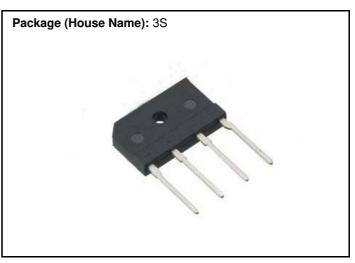
D10SBS4 Bridge Diodes 40V, 10A

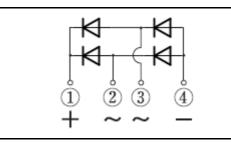
Feature

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

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

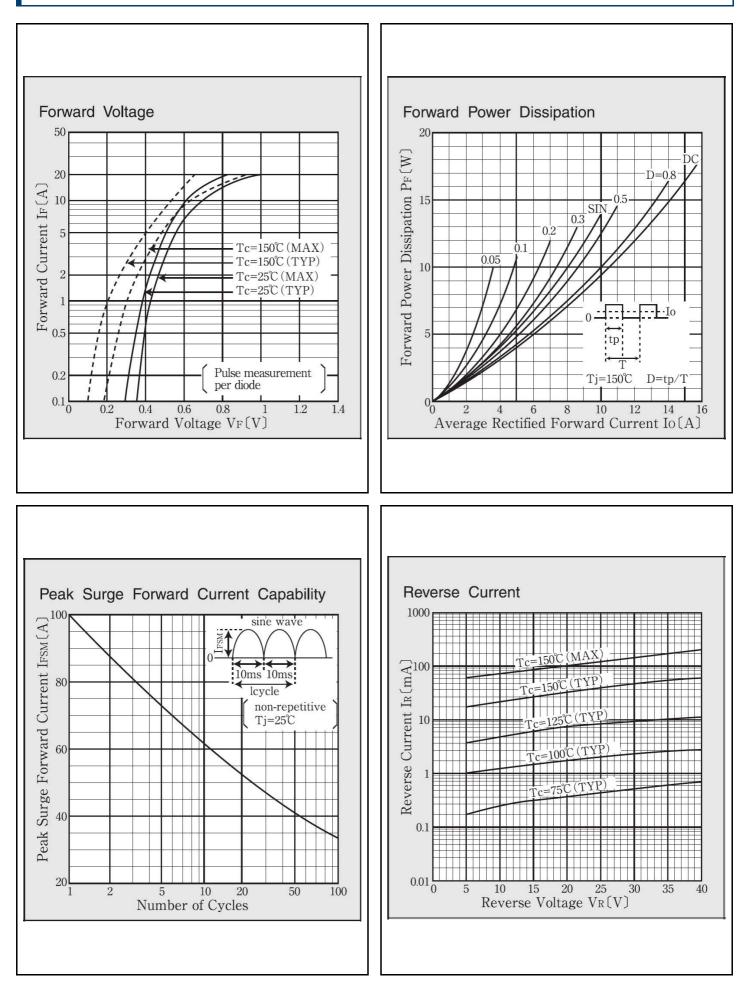
Item	Symbol	Conditions	Ratings	Unit	
Storage temperrature	Tstg		-55 to 150	°C	
Junction temperature	Tj		150	°C	
Repetitive peak reverse voltage	V _{RRM}		40	V	
Non-repetitive peak reverse voltage	V _{RSM}	Pulse width 0.5ms, Duty 1/40	45	v	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=67°C	10	А	
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	А	
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	

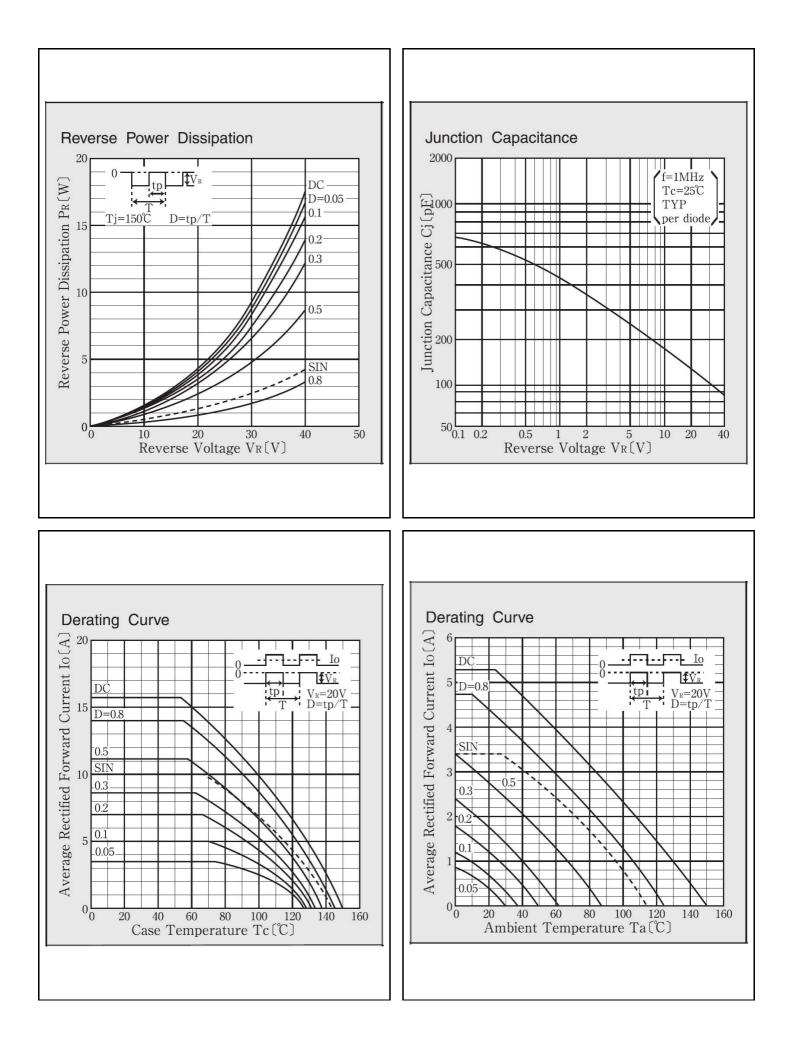
* : See the original Specifications

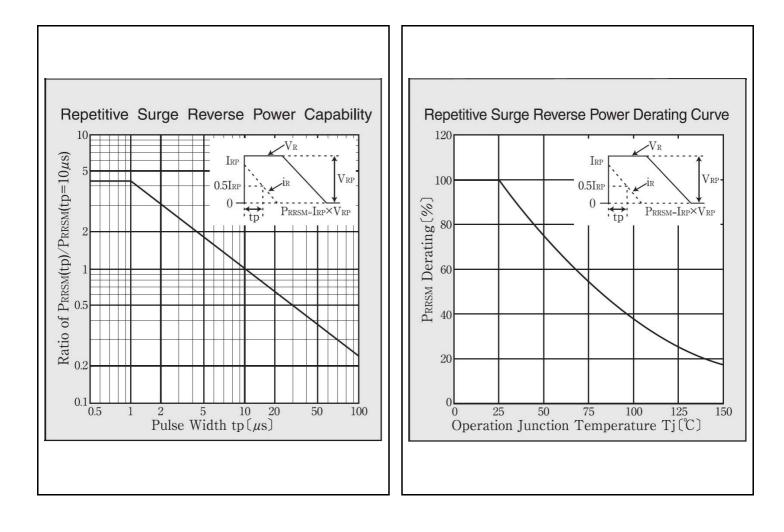
Electrical Characteristics (unless otherwise specified : Tc=25°C)							
Item	Symbol	Conditions		Ratings			
	Symbol		MIN	ТҮР	MAX	Unit	
Forward voltage	V _F	IF=5A, Pulse measurement, per diode			0.55	V	
Reverse current	I _R	VR=40V, Pulse measurement, per diode			3500	μA	
Total capacitance	Ct	f=1MHz, VR=10V, 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

CHARACTERISTIC DIAGRAMS



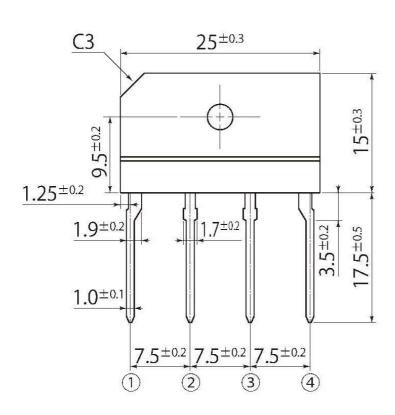


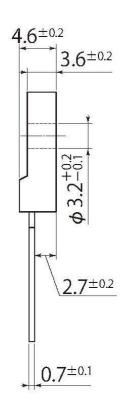


unit:mm

D3

JEDEC Code	_
JEITA Code	-
House Name	3S





Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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