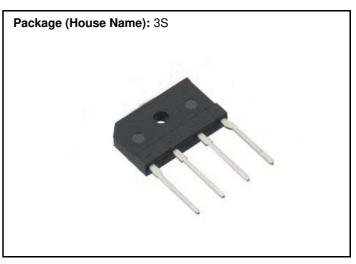
D15XBS6 Bridge Diodes 60V, 15A

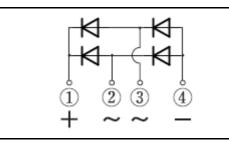
Feature

- 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}		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=59°C	15	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	2.1	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	150	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

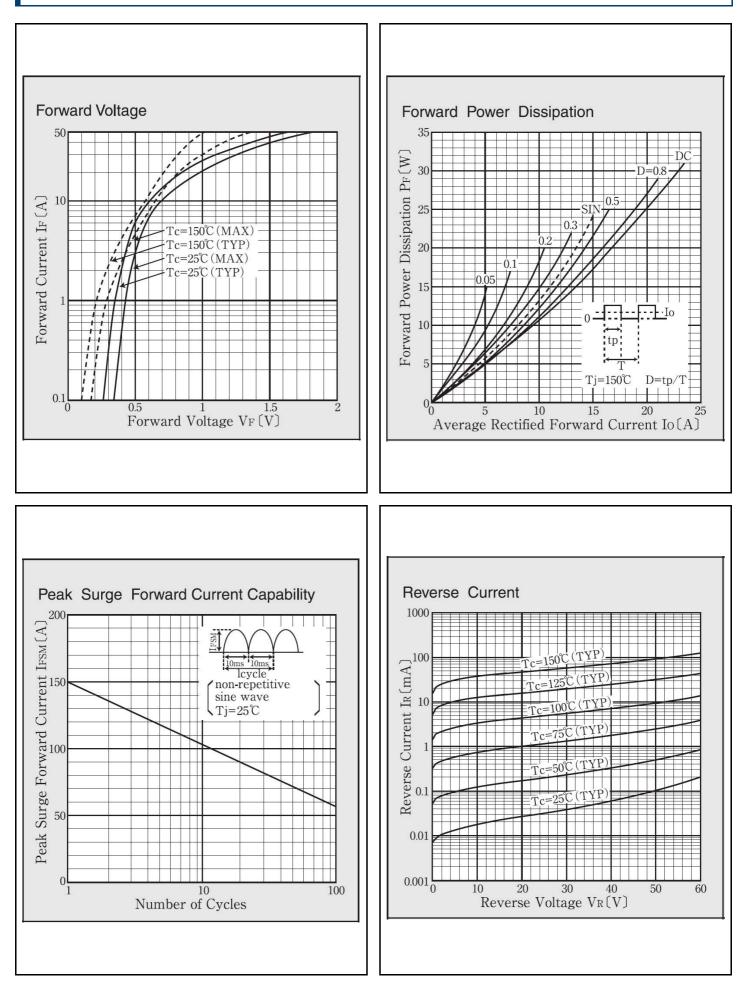
* : See the original Specifications

Electrical Characteristics	(unless otherwise specified : Tc=25°C)
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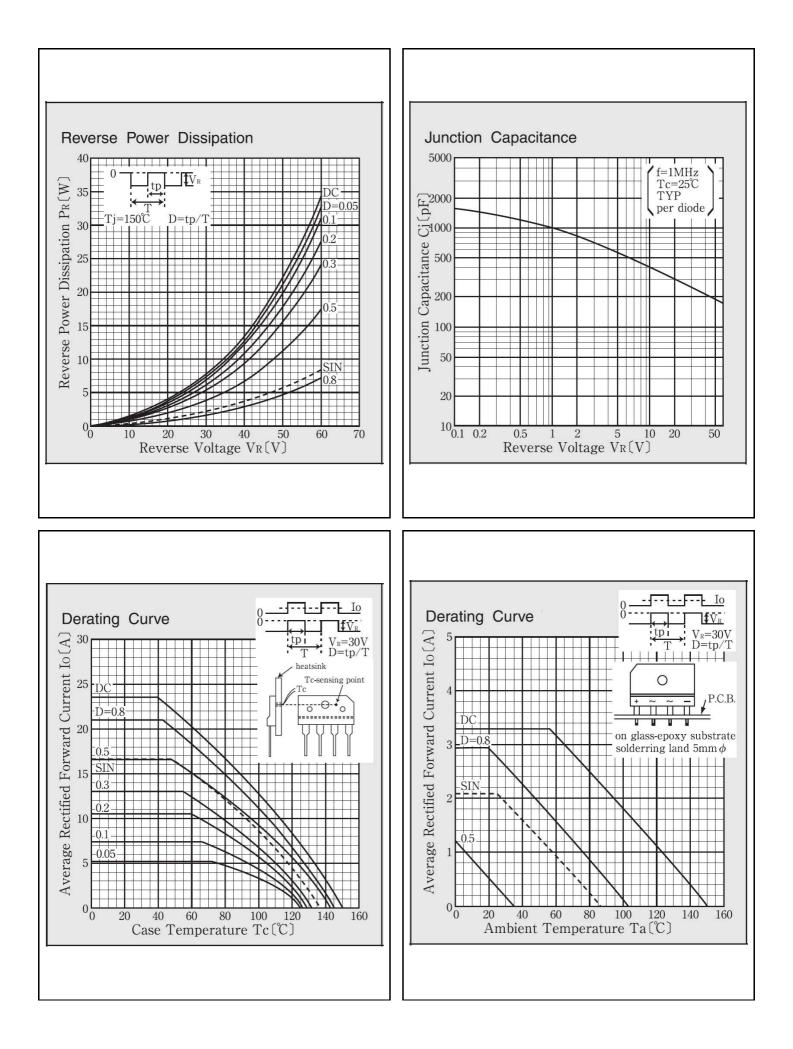
Item	Symbol	Conditions		Ratings		
	Symbol		MIN	ТҮР	MAX	Unit
Forward voltage	V _F	IF=7.5A, Pulse measurement, per diode			0.63	V
Reverse current	I _R	VR=60V, Pulse measurement, per diode			6000	μA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		410		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			3.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			6	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			30	°C/W

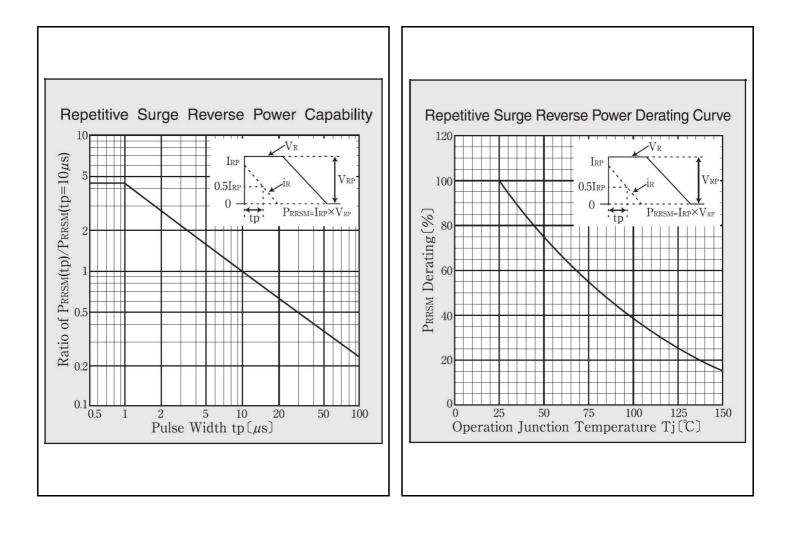
* : See the original Specifications

CHARACTERISTIC DIAGRAMS



3/7

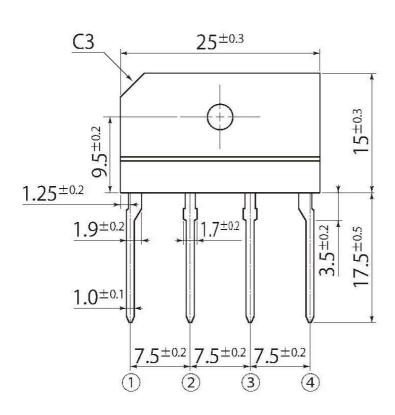


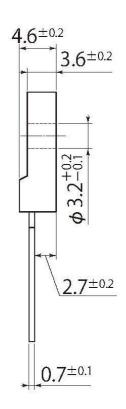


unit:mm

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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