

D6SB80

Bridge Diodes  
800V, 6A

Feature

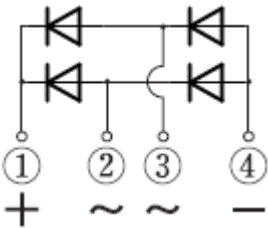
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		800	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=110°C	6	A
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	2.8	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	170	A
Current squared time	I <sup>2</sup> t	2ms≦t<10ms, Tj=25°C, per diode	140	A <sup>2</sup> s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N・m)	0.8	N・m

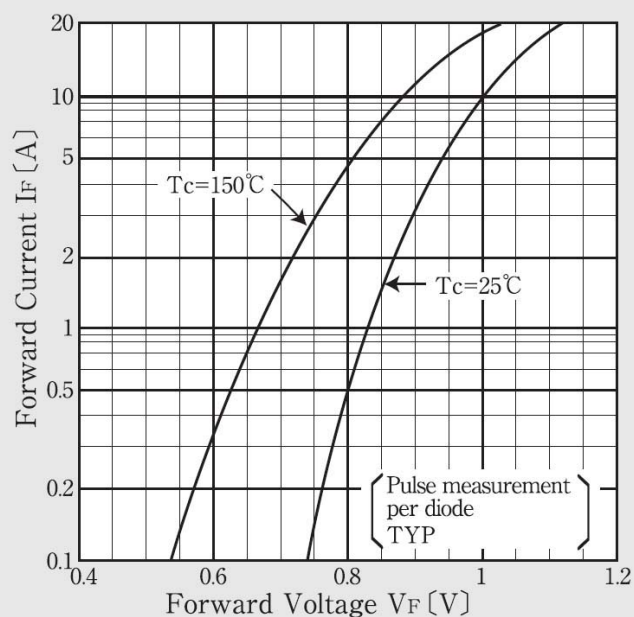
※ :See the original Specifications

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

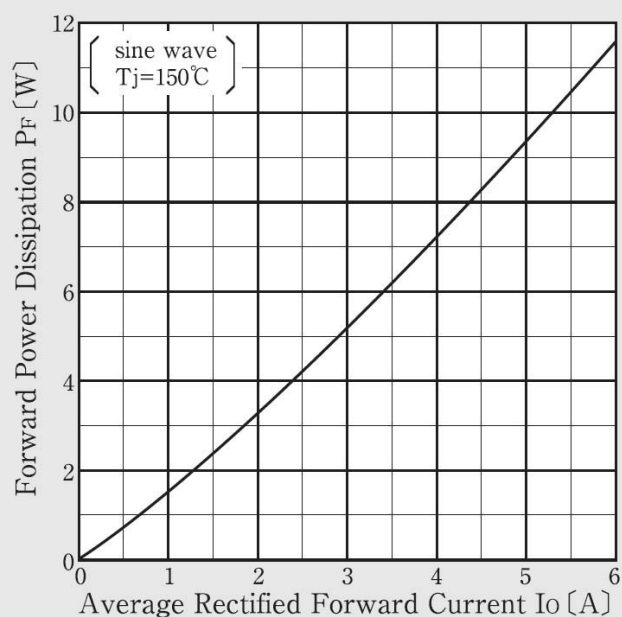
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=3.0A$ , Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	$V_R=800V$ , Pulse measurement, per diode			10	$\mu A$
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			3.4	$^{\circ}C/W$
Thermal resistance	$R_{th(j-l)}$	Junction to lead, Without heatsink			5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, Without heatsink			26	$^{\circ}C/W$

※ :See the original Specifications

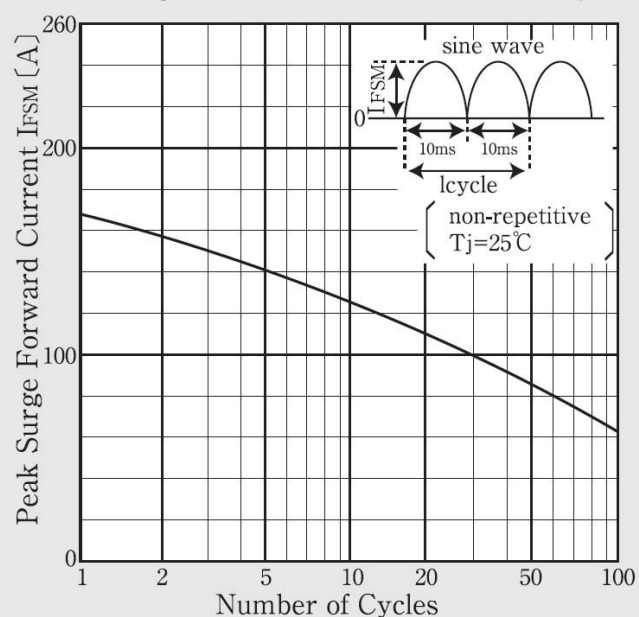
## Forward Voltage



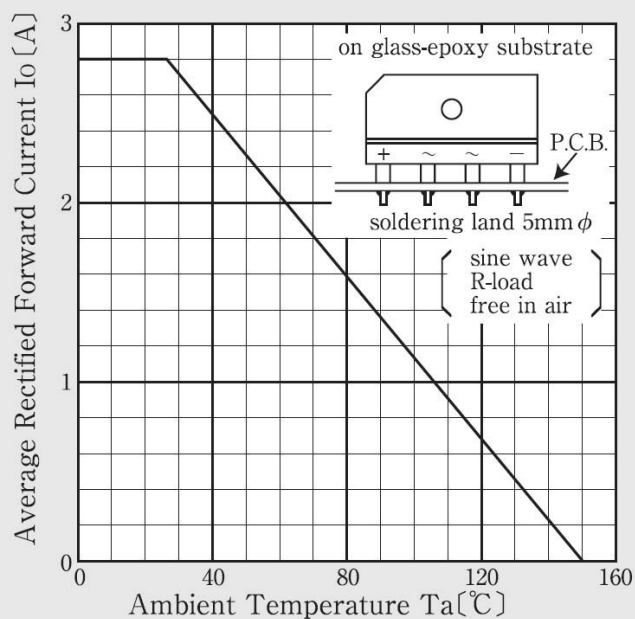
## Forward Power Dissipation

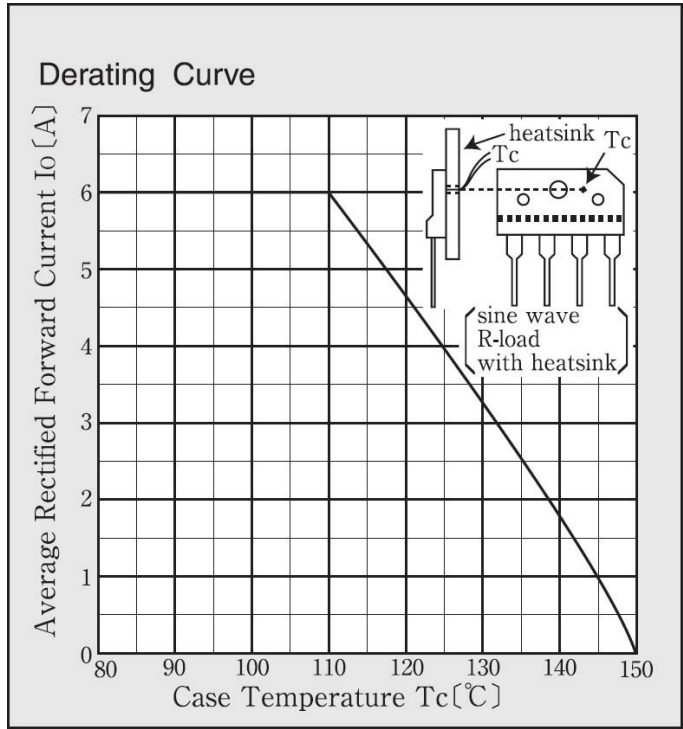


## Peak Surge Forward Current Capability



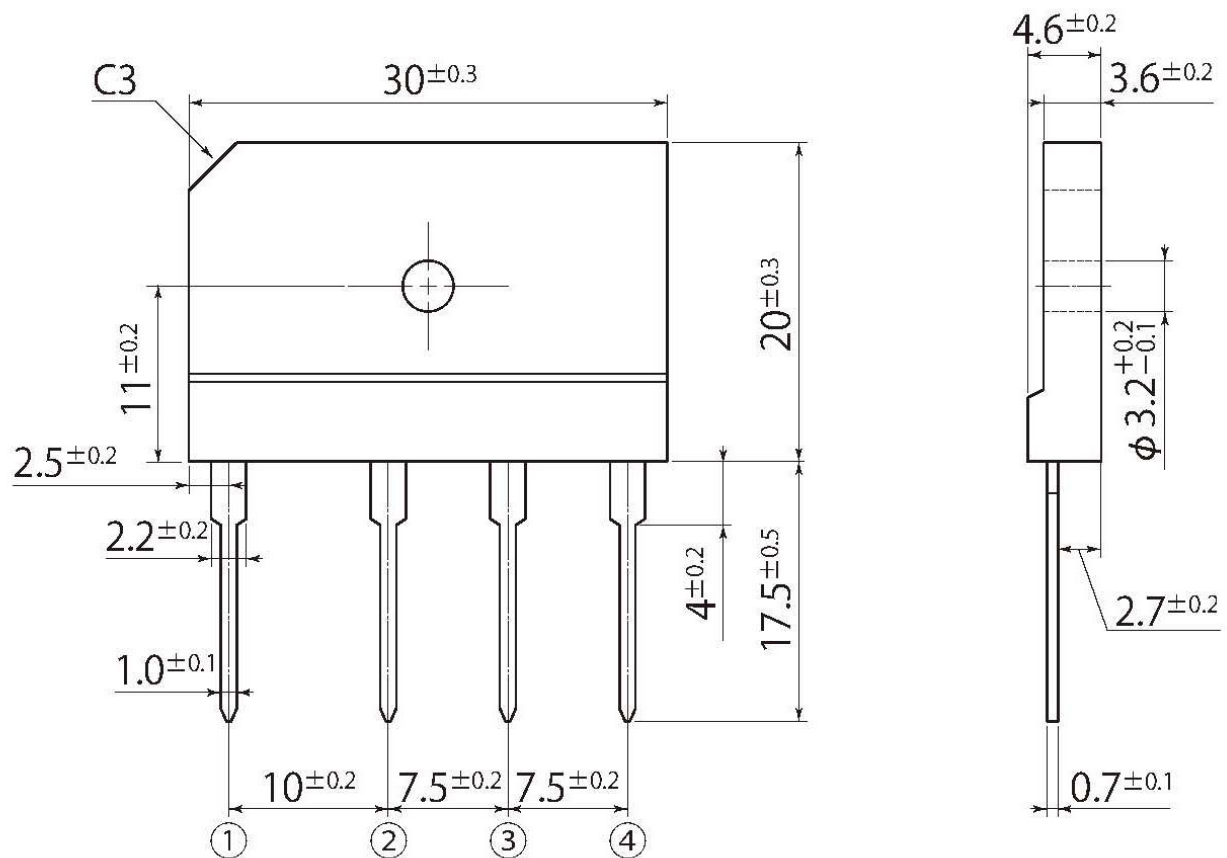
## Derating Curve





D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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