

D25XB60

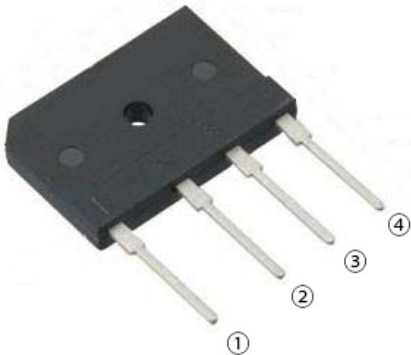
Bridge Diodes  
600V, 25A

Feature

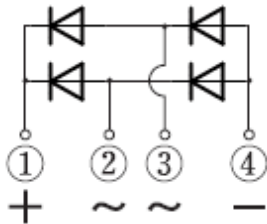
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

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	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, With heatsink, Tc=98°C	25	A
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	3.5	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	A
Current squared time	I <sup>2</sup> t	1ms≤t<10ms, Tj=25°C, per diode	300	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

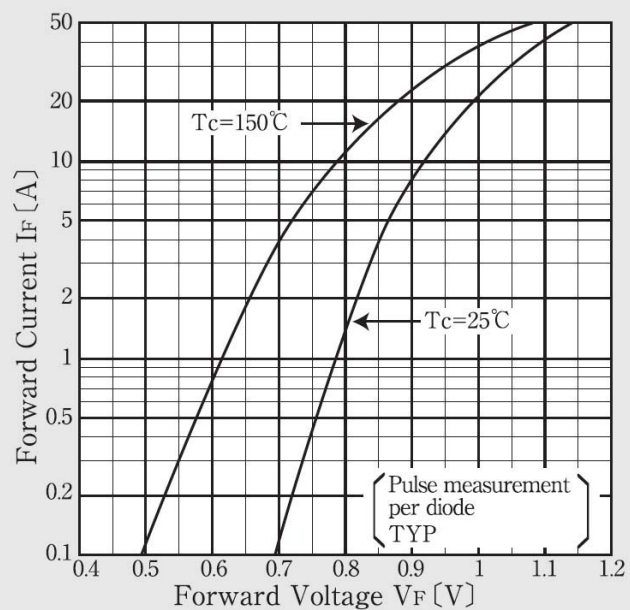
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=12.5A, Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	VR=600V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			22	°C/W

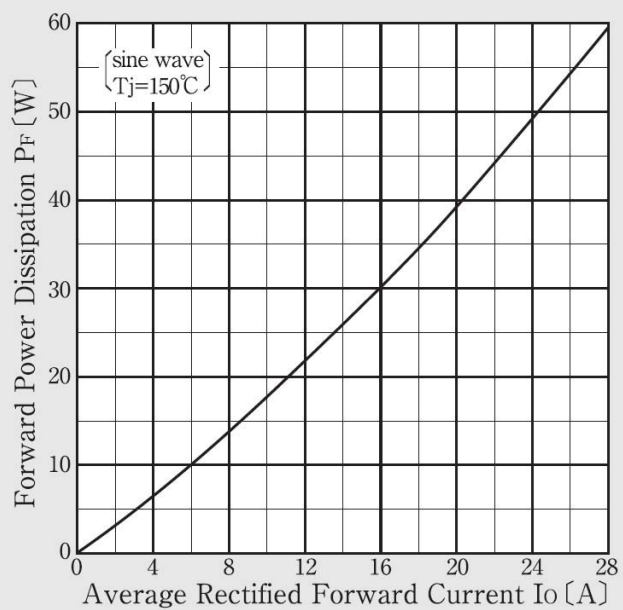
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

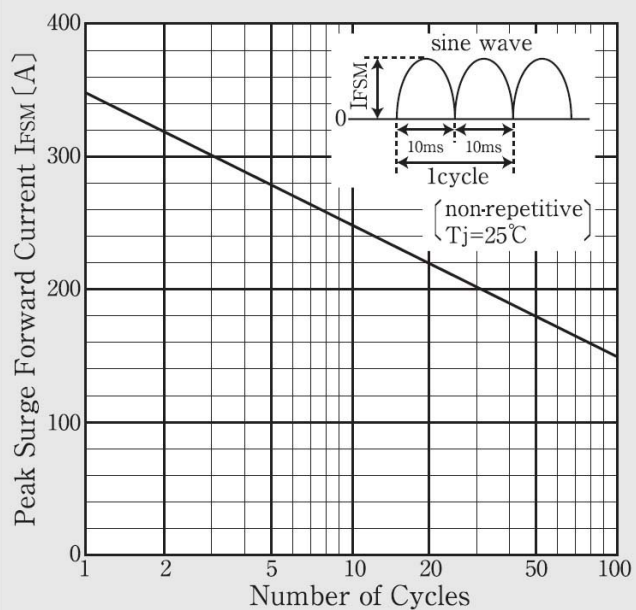
### Forward Voltage



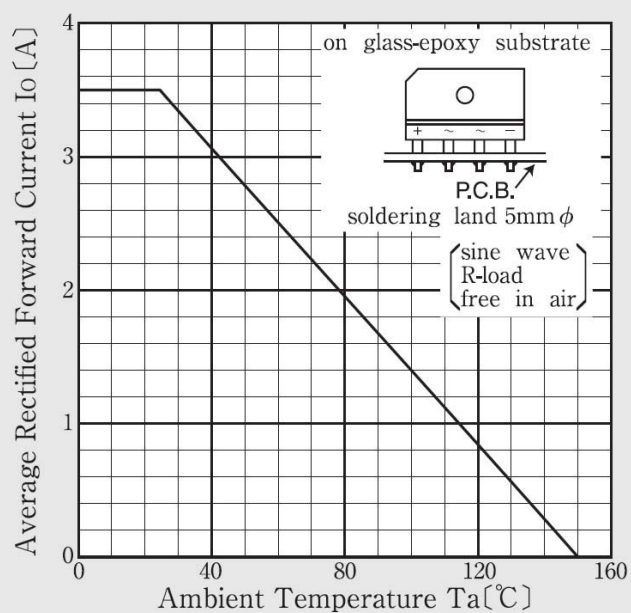
### Forward Power Dissipation



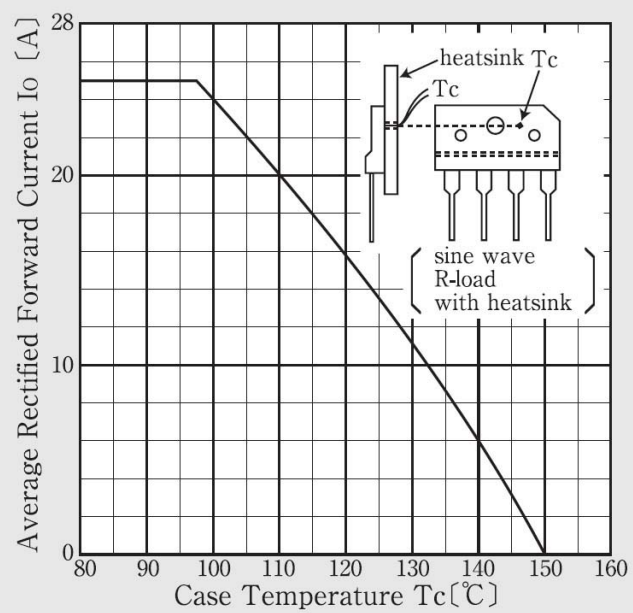
### Peak Surge Forward Current Capability



### Derating Curve

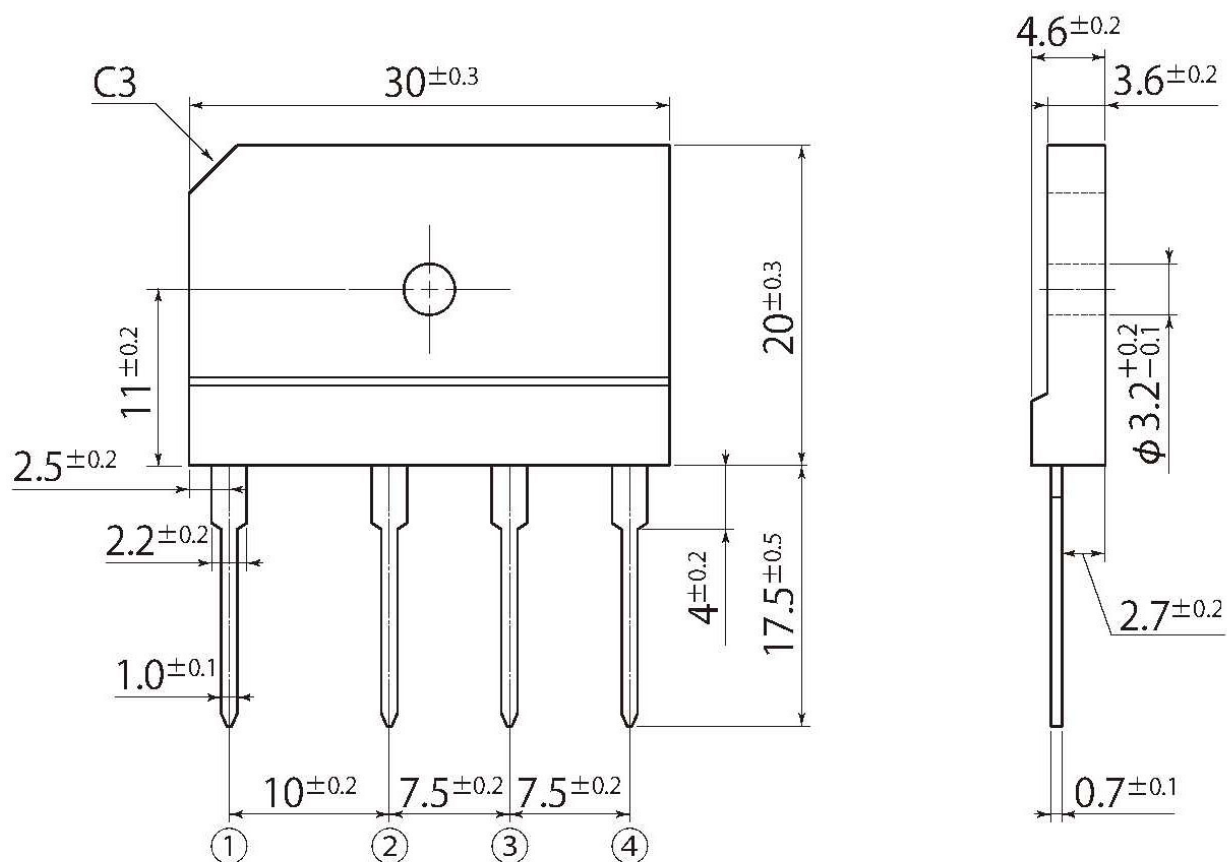


Derating Curve



D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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