

D25XB80

Bridge Diodes

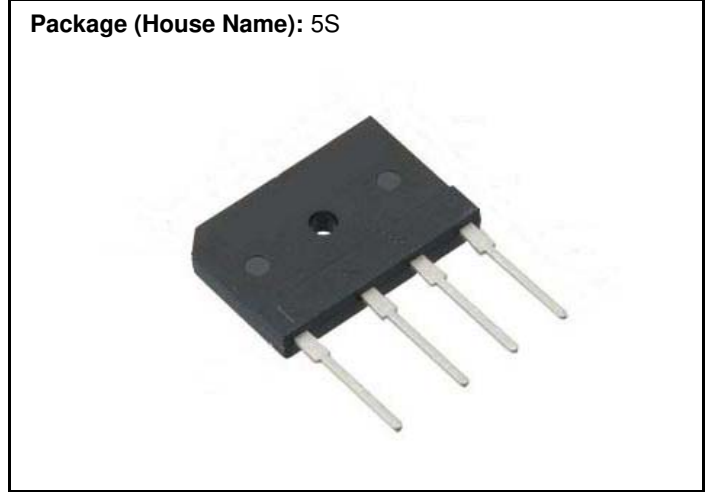
800V, 25A

Feature

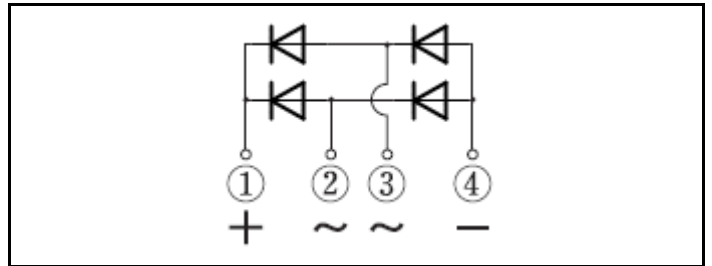
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 150	°C
Junction temperature	T _j		-40 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, T _C =98°C	25	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, T _a =25°C ※	3.5	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	350	A
Current squared time	I ² t	1ms ≤ tp < 10ms, T _j =25°C, per diode	300	A ² s
Dielectric strength	V _{dis}	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

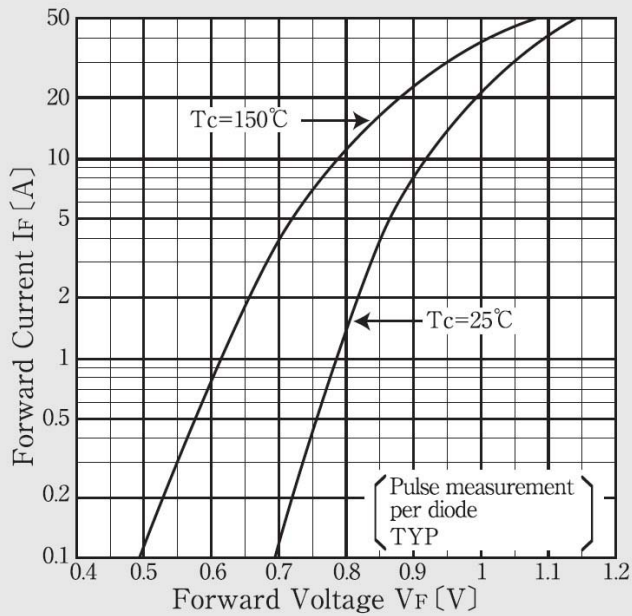
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =12.5A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	V _R =800V, Pulse measurement, per diode			10	μA
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			1	°C/W
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate *			22	°C/W

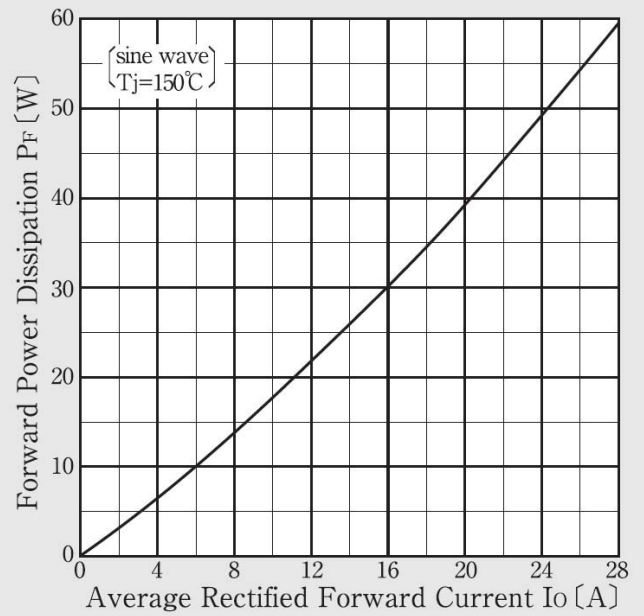
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

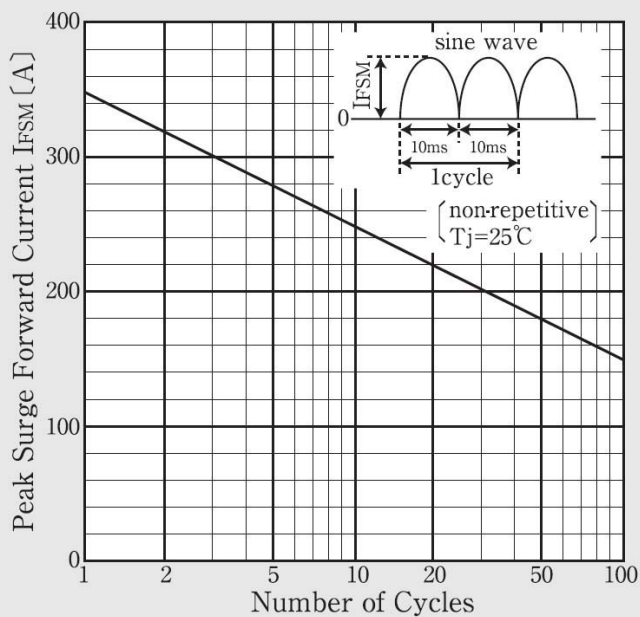
Forward Voltage



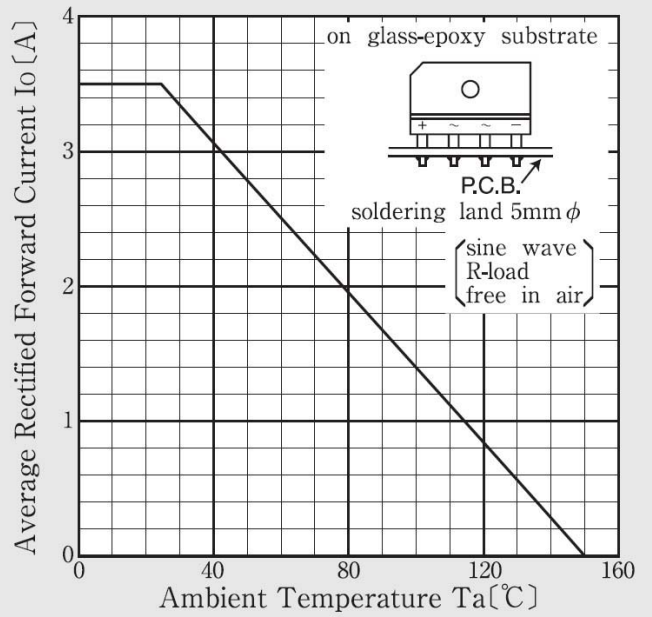
Forward Power Dissipation



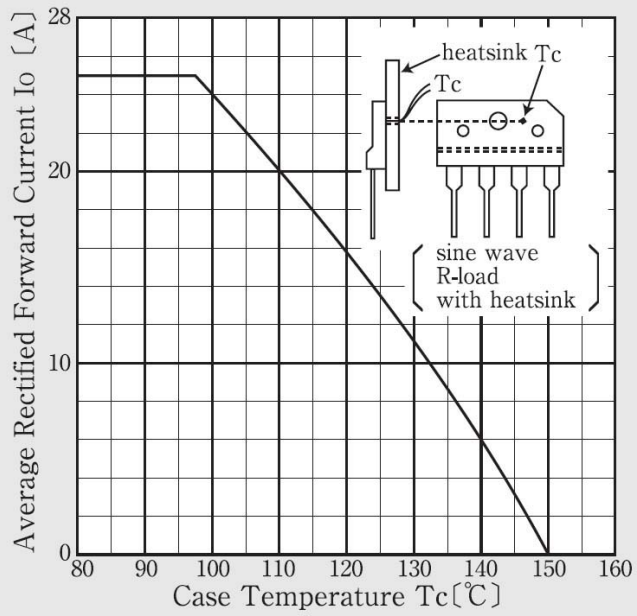
Peak Surge Forward Current Capability



Derating Curve

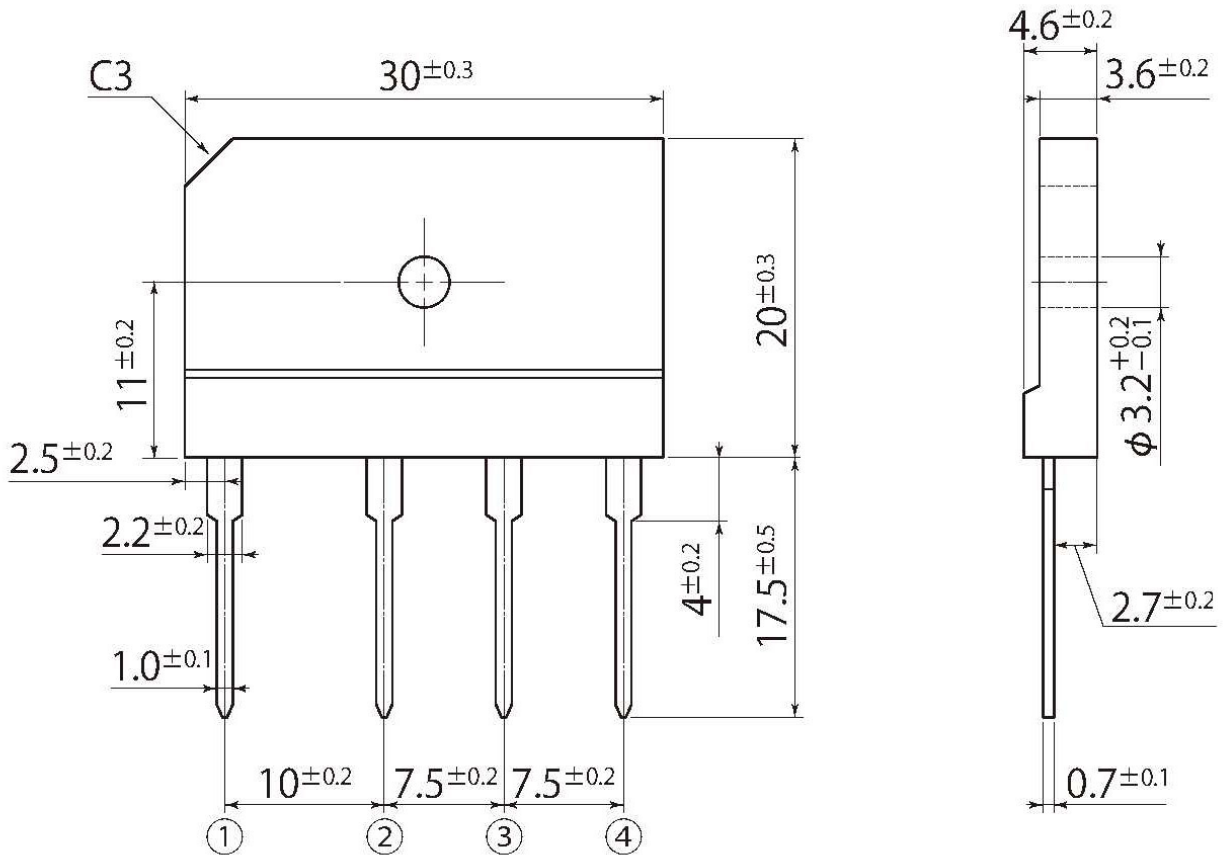


Derating Curve



D4

JEDEC Code	-
JEITA Code	-
House Name	5S



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