

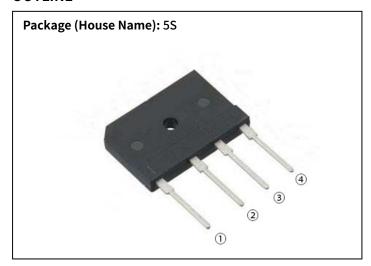
D35XB80

Bridge Diodes 800V, 35A

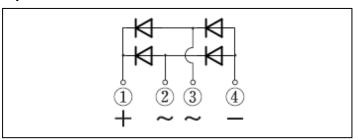
Feature

- Compact SIP
- UL E142422
- High Current
- · High heat dissipation
- 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		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=93°C	35	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C %	3	Α
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	603	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	550	Α
Current squared time	l ² t	1ms≦tp<10ms, Tj=25°C, per diode	1512	A ² s
Dielectric strength	Vdis	Terminals to case backside, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

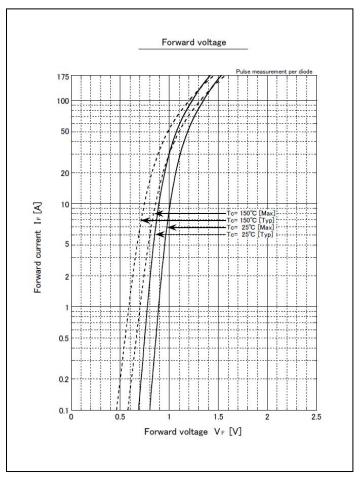
[※] ∶See the original Specifications

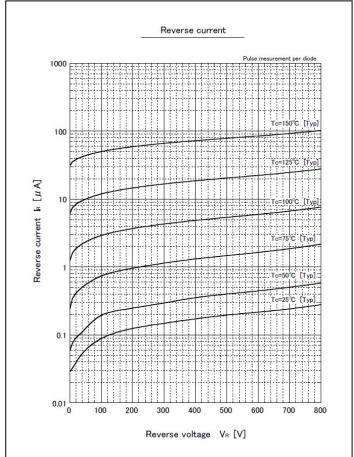
Electrical Characteristics (unless otherwise specified : Tc=25°C)

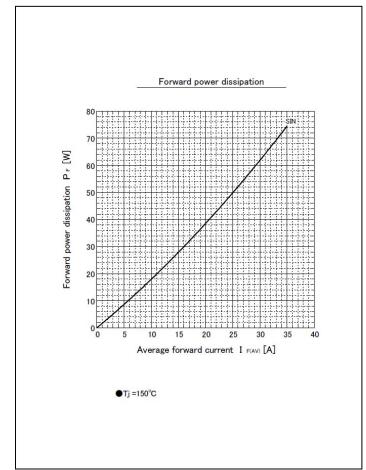
Item	Symbol	Conditions	Ratings			llmit.
			MIN	TYP	MAX	Unit
Forward voltage	V _F	IF=17.5A, Pulse measurement, per diode			1.05	٧
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μΑ
Reverse recovery time	trr	IF=0.1A, IR=0.1A, 0.1IRP, per diode			27000	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.8	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink, On glass- epoxy substrate **			5.2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink, On glass- epoxy substrate **			25	°C/W

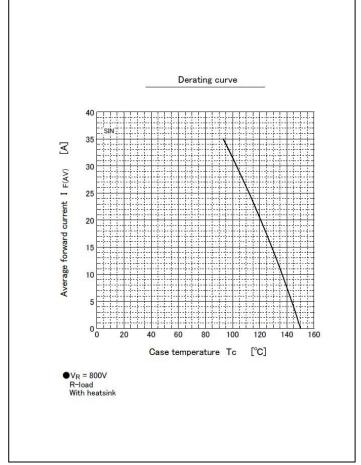
 $[\]divideontimes$: See the original Specifications

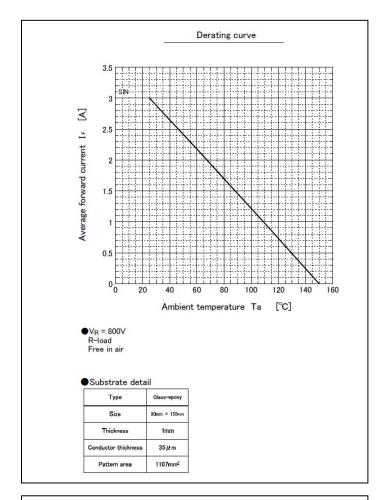
CHARACTERISTIC DIAGRAMS

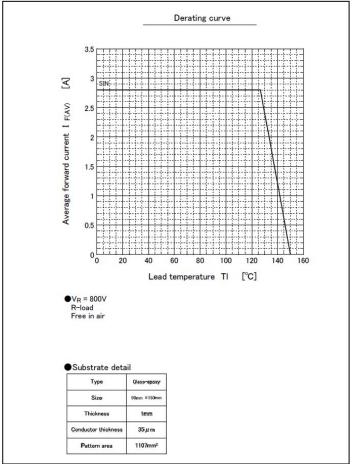


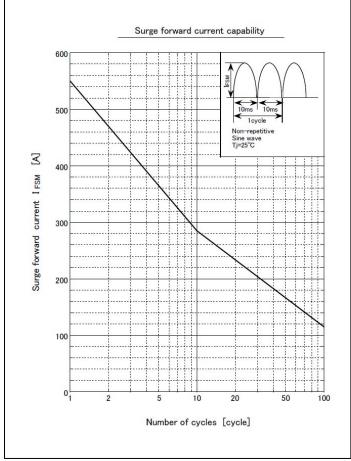


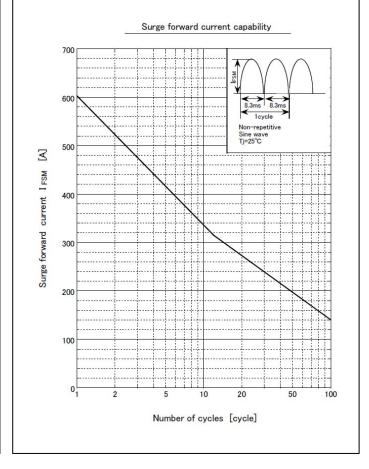


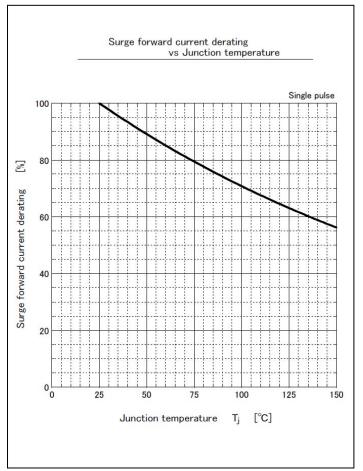


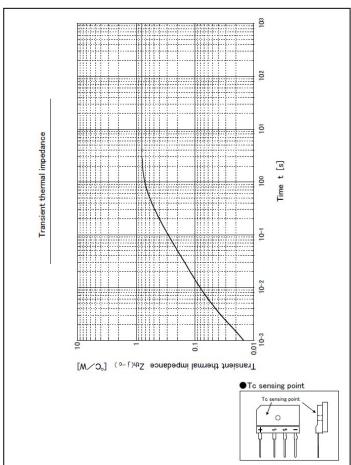


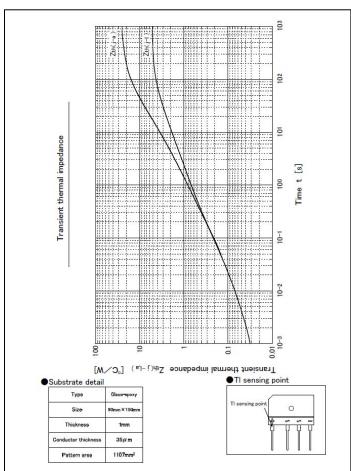








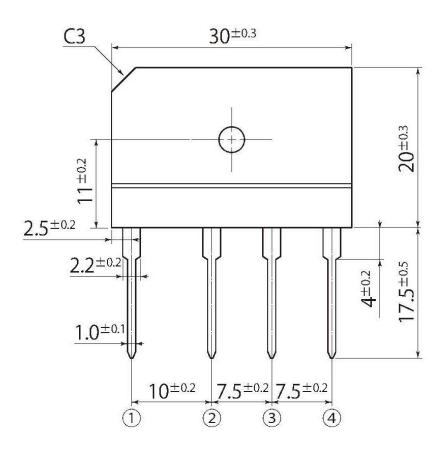


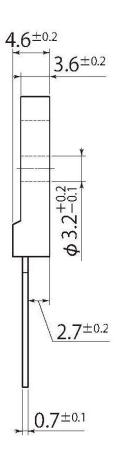


unit:mm

D4

JEDEC Code	1—3
JEITA Code	_
House Name	5S





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