

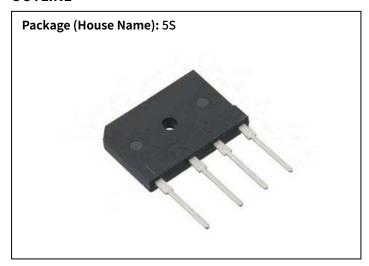
# D35XB80

# Bridge Diodes 800V, 35A

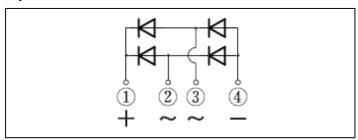
### **Feature**

- 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 <sub>RRM</sub>		800	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=93°C	35	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C **	3	А
Surge forward current	I <sub>FSM</sub>	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	603	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	550	Α
Current squared time	l <sup>2</sup> t	1ms≦tp<10ms, Tj=25°C, per diode	1512	A <sup>2</sup> 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

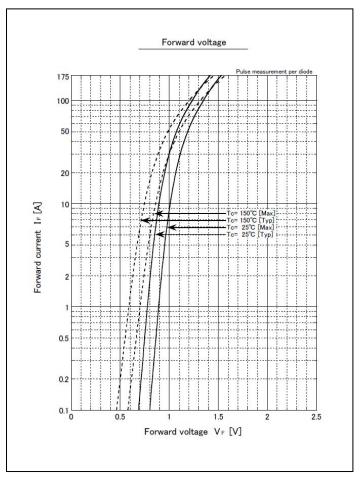
**<sup>※</sup>** ∶See the original Specifications

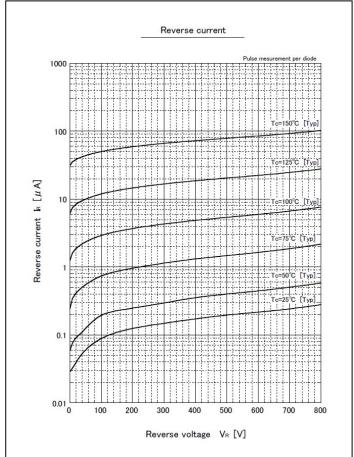
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

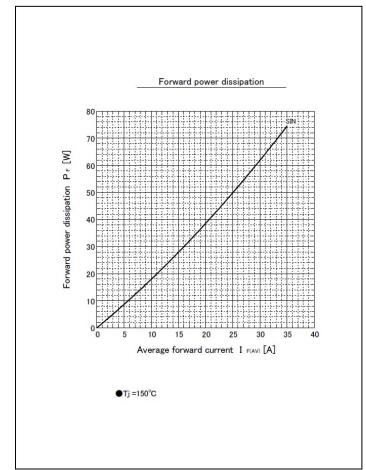
Item	Symbol	Conditions	Ratings			llm!t
			MIN	TYP	MAX	Unit
Forward voltage	V <sub>F</sub>	IF=17.5A, Pulse measurement, per diode			1.05	٧
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement, per diode			10	μΑ
Reverse recovery time	trr	IF=0.1A, IR=0.1A, 0.1IRP, per diode			27000	ns
Thermal resistance	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

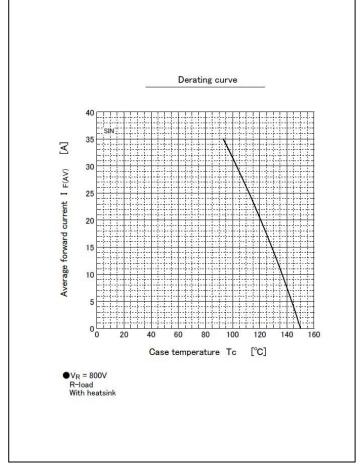
 $<sup>\</sup>divideontimes$  : See the original Specifications

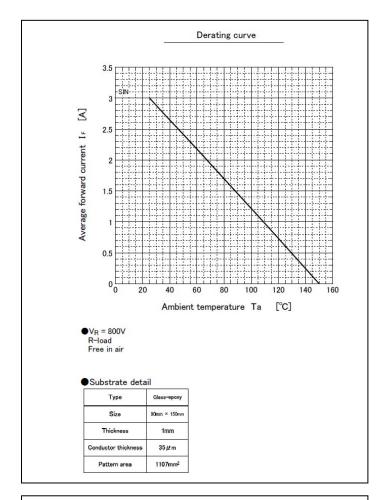
### **CHARACTERISTIC DIAGRAMS**

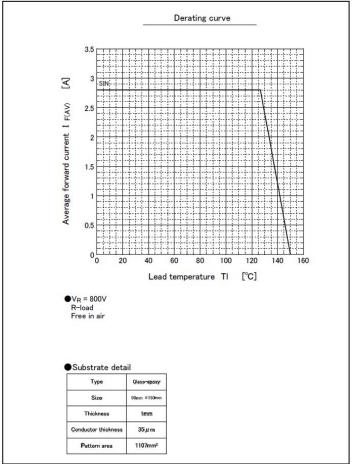


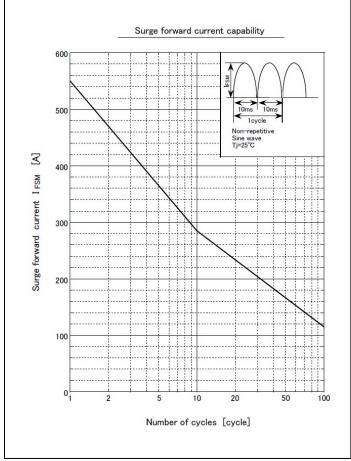


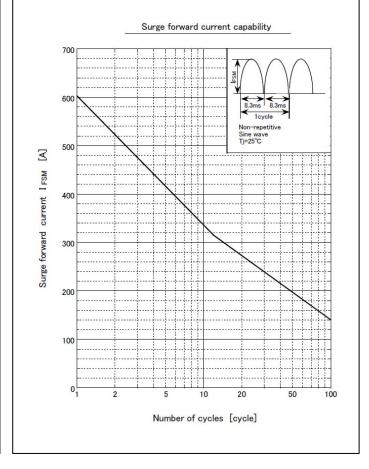


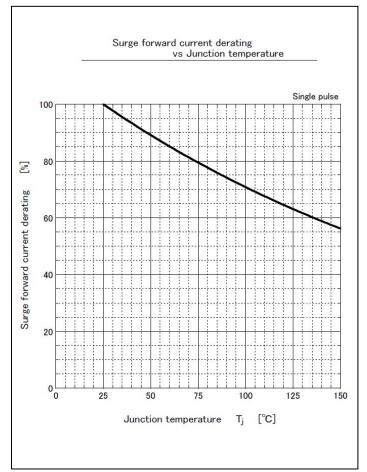


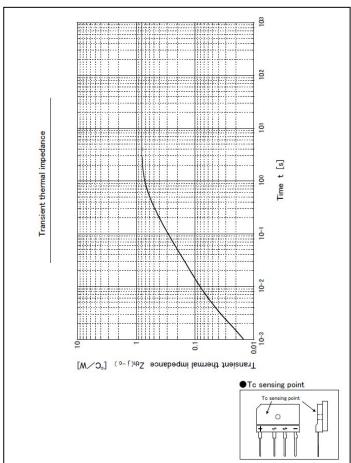


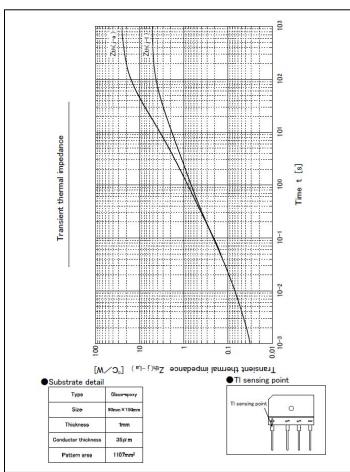








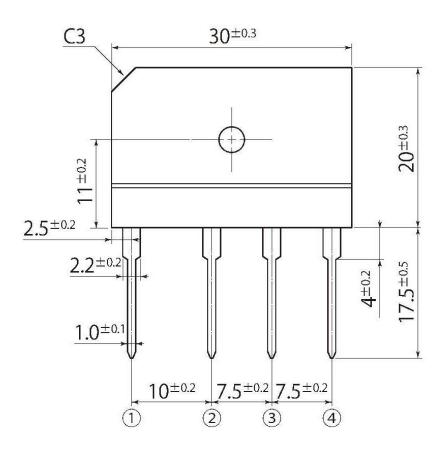


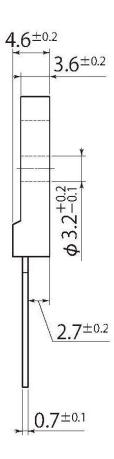


unit:mm

D4

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





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