

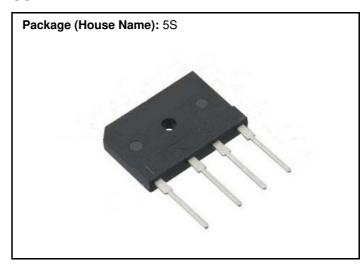
# D15XB100

# Bridge Diodes 1000V, 15A

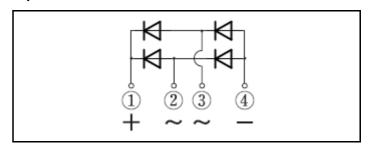
### **Feature**

- Compact SIP
- UL E142422
- · 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	$V_{RRM}$		1000	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=110°C	15	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C *	3.1	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	А
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

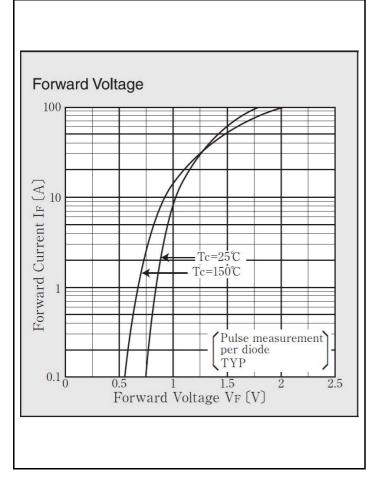
<sup>\* :</sup>See the original Specifications

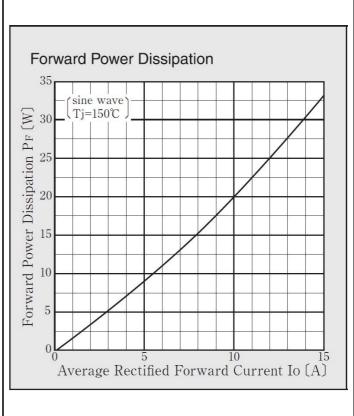
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

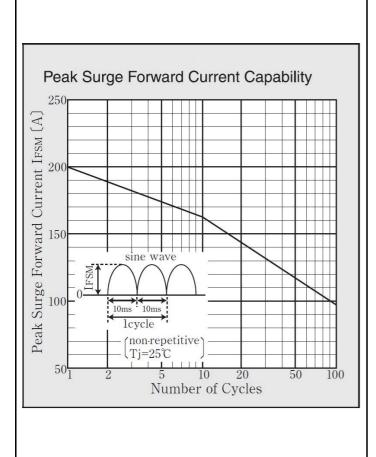
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.I.I.
Forward voltage	V <sub>F</sub>	IF=7.5A, Pulse measurement, per diode			1.1	V
Reverse current	I <sub>R</sub>	VR=1000V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.2	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink *			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink *			23	°C/W

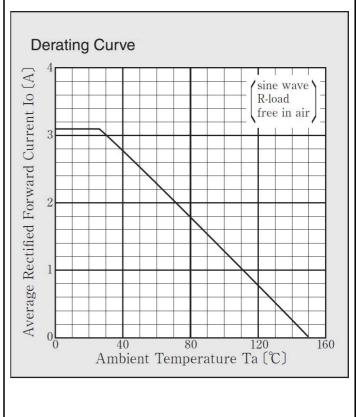
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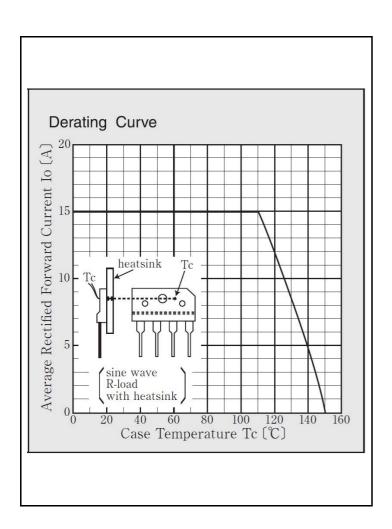
### **CHARACTERISTIC DIAGRAMS**









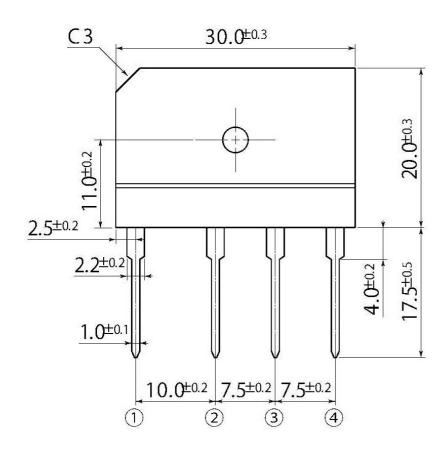


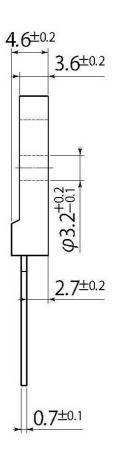
unit:mm

scale: 2/1

D4

JEDEC Code	_
JEITA Code	_
House Name	5S





#### **Notes**

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### [Special applications]

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### (Specific applications)

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