

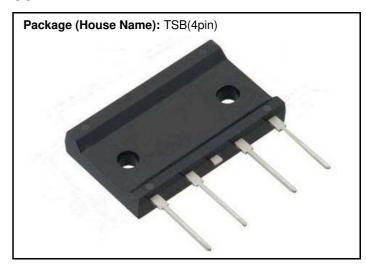
## **D50XB80**

# Bridge Diodes 800V, 50A

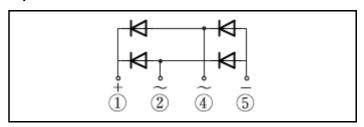
### **Feature**

- 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		-40 to 150	°C	
Junction temperature	Tj		-40 to 150	°C	
Repetitive peak reverse voltage	$V_{RRM}$		800	V	
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=95°C	50	А	
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=26°C *	4.6	А	
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	600	А	
Current squared time	l²t	1ms≦tp<10ms, Tj=25°C, per diode	1800	A <sup>2</sup> s	
Dielectric strength	Vdis	Terminals to case, AC 1 minute, Except top (opposite side of the terminal side) of the mold case	2	kV	
Mounting torque	TOR	(Recommended torque : 1.2N·m)	1.5	N∙m	

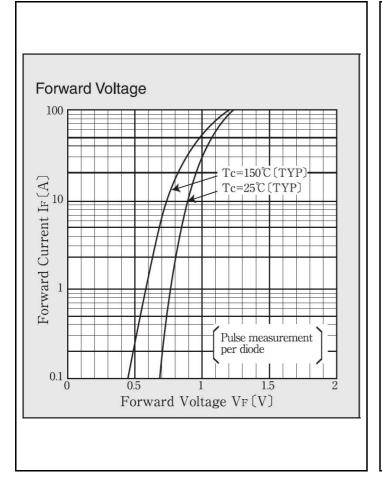
<sup>\* :</sup> See the original Specifications

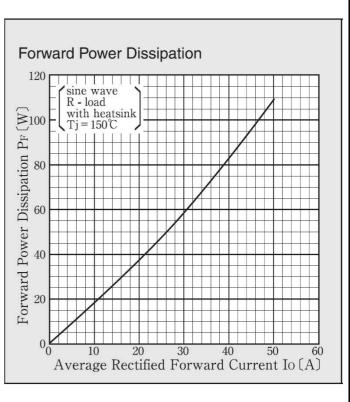
## **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

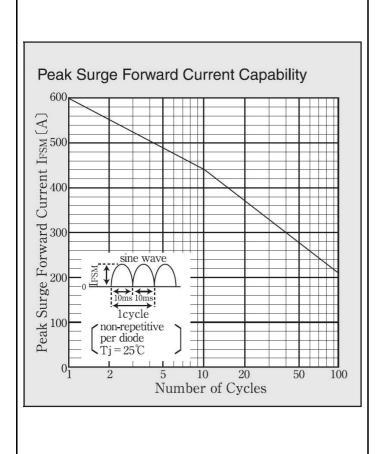
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=25A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			16	°C/W

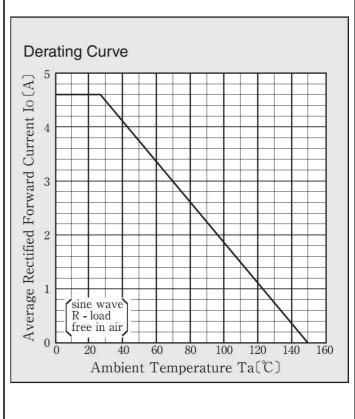
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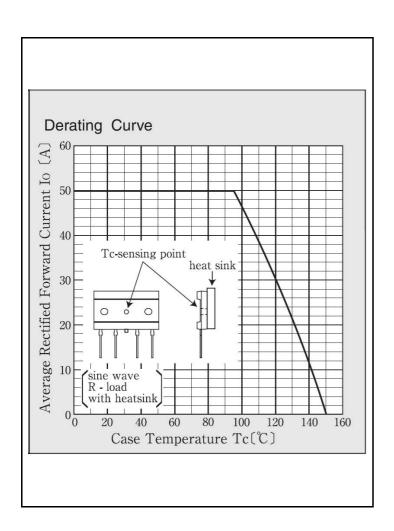
## **CHARACTERISTIC DIAGRAMS**









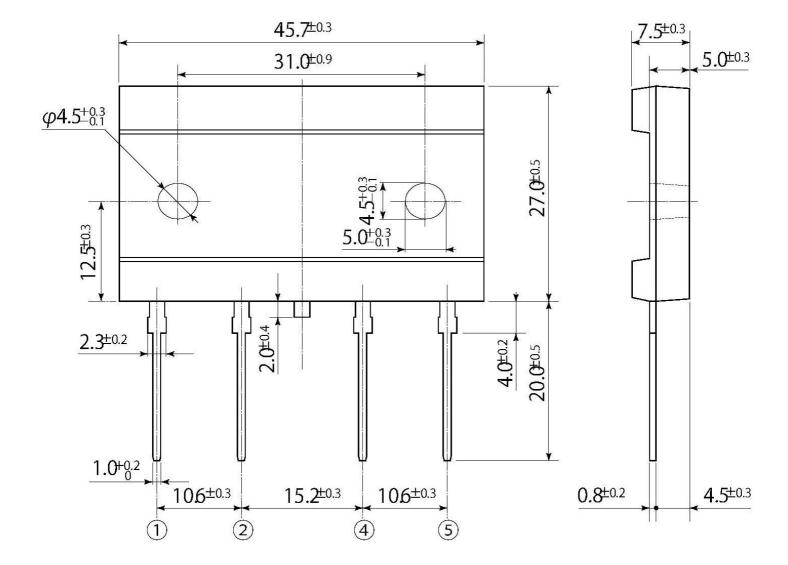


unit:mm

scale: 2/1

D7

JEDEC Code	-		
JEITA Code	1		
House Name	TSB(4pin),JC(4pin)		



#### **Notes**

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#### (Special applications)

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#### (Specific applications)

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