

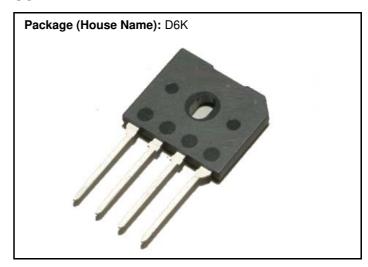
## US8KB80R

# Bridge Diodes 800V, 8A

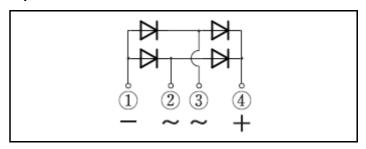
### **Feature**

- · Small · 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		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		800	V
Average forward current	I <sub>F</sub> (AV)	60Hz sine wave, Resistance load, With heatsink, Tc=108°C	8	А
Average forward current	I <sub>F</sub> (AV)	60Hz sine wave, Resistance load, Without heatsink, Ta=26°C	2.2	Α
Surge forward current	I <sub>FSM</sub>	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	А
Surge forward current	I <sub>FSM1</sub>	tp=1ms, Tj=25°C, Non-repetitive	575	Α
Current squared time	ľt	1ms≦tp<8.3ms, Tj=25°C, per diode	166	A <sup>2</sup> s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

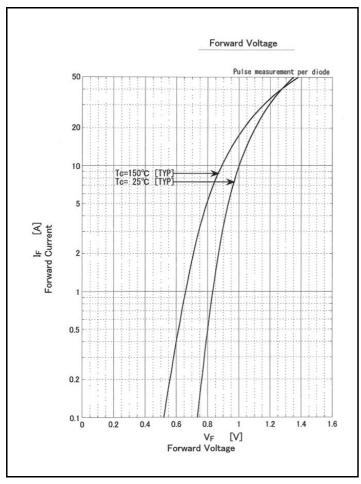
<sup>\* :</sup> See the original Specifications

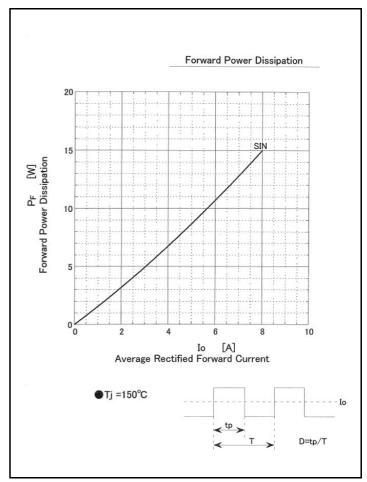
## **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

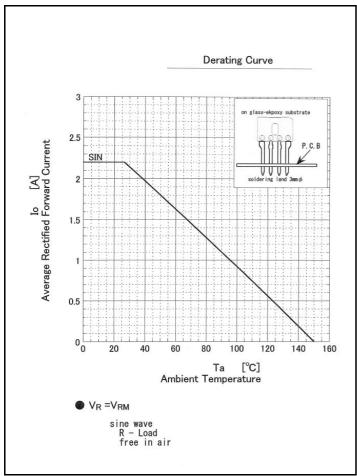
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=4A, Pulse measurement, per diode			1	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.8	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			35	°C/W

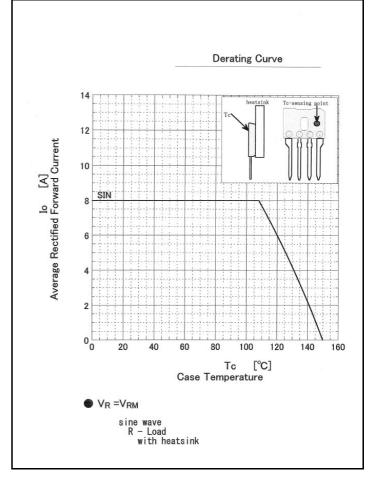
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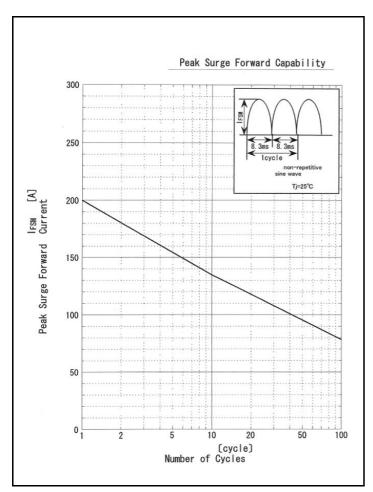
## **CHARACTERISTIC DIAGRAMS**

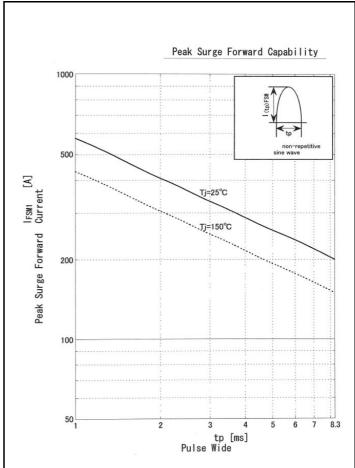








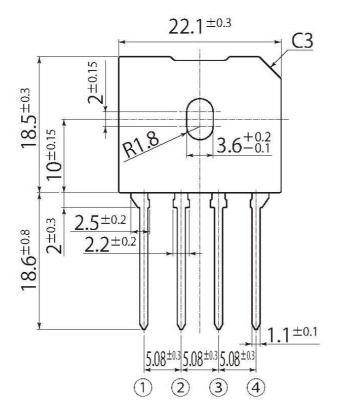


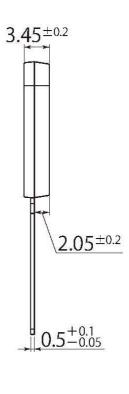


unit:mm

D11

JEDEC Code	1
JEITA Code	_
House Name	D6K





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