

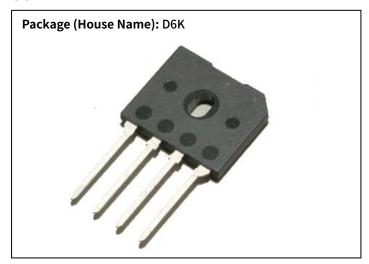
# US15KB80HR

# Bridge Diodes 800V, 15A

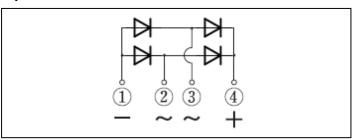
### **Feature**

- 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)

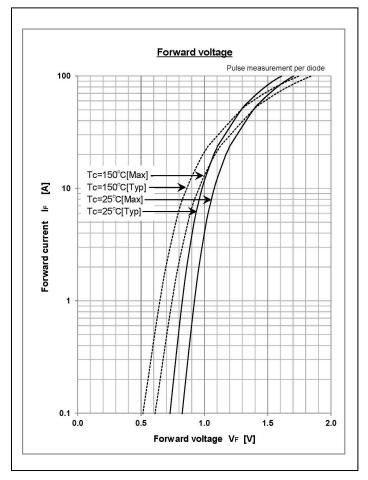
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		800	V
Average forward current	I <sub>F</sub> (AV)	60Hz sine wave, Resistance load, With heatsink, Tc=113°C	15	А
Average forward current	I <sub>F</sub> (AV)	60Hz sine wave, Resistance load, Without heatsink, Tl=132°C	2.22	Α
Average forward current	I <sub>F</sub> (AV)	60Hz sine wave, Resistance load, Without heatsink, Ta=25°C	2.22	Α
Surge forward current	I <sub>FSM</sub>	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	240	Α
Surge forward current	I <sub>FSM1</sub>	tp=2ms, Tj=25°C, Non-repetitive	490	Α
Current squared time	l <sup>2</sup> t	2ms≦tp<8.3ms, Tj=25°C, per diode	240	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

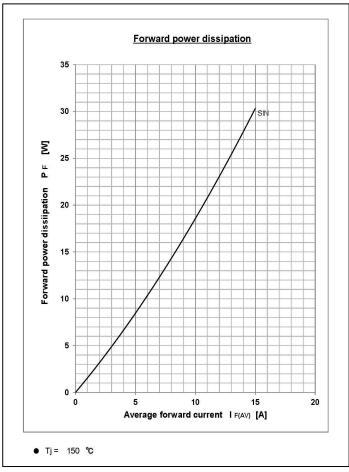
**<sup>※</sup>** ∶See the original Specifications

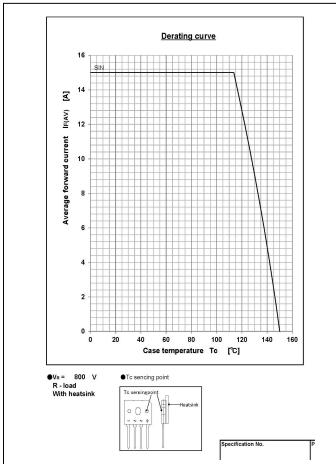
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

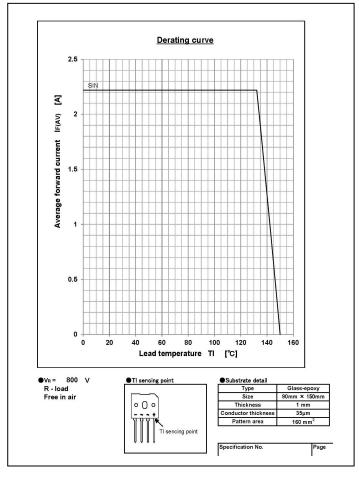
Item	Symbol	Conditions	Ratings			l lmit
			MIN	TYP	MAX	Unit
Forward voltage	V <sub>F</sub>	IF=7.5A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	VR=800V, Pulse measurement, per diode			10	μА
Reverse recovery time	trr	IF=0.1A, IR=0.1A, 0.1 IR per diode			20	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.2	°C/W
Thermal resistance	Rth(j-l)	Junction to lead,			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient,			35	°C/W

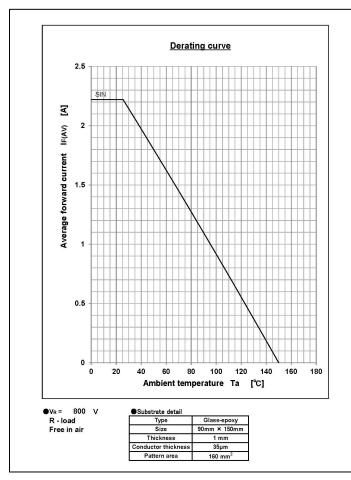
### **CHARACTERISTIC DIAGRAMS**

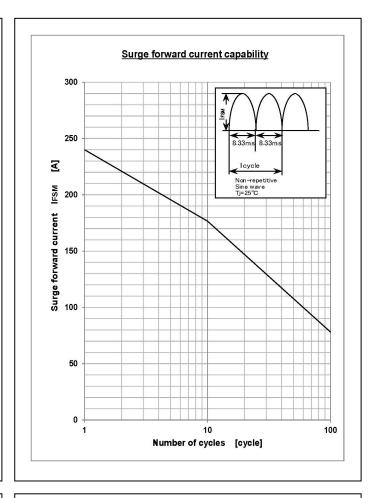


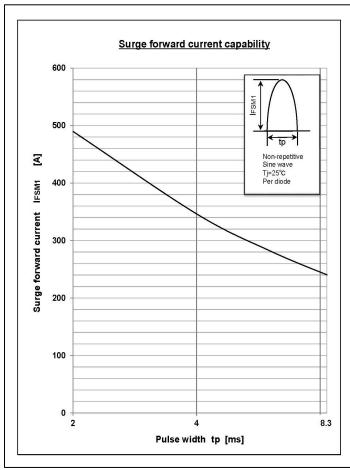


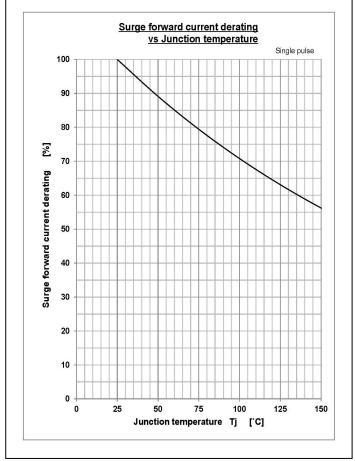








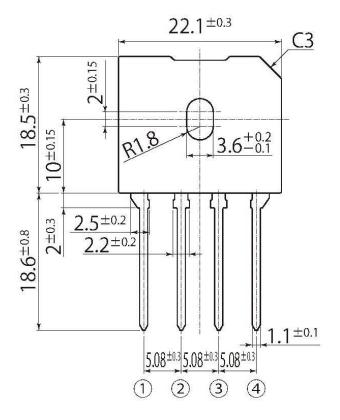


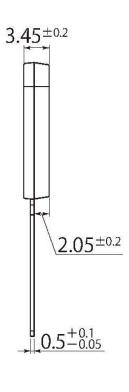


unit:mm

D11

JEDEC Code	-
JEITA Code	_
House Name	D6K





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