

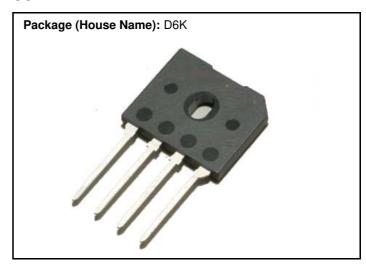
US15KB80R

Bridge Diodes 800V, 15A

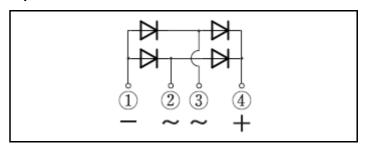
Feature

- · 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		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		800	V
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, With heatsink, Tc=101°C	15	Α
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=30°C *	2	Α
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	200	Α
Surge forward current	I _{FSM1}	tp=3ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	330	А
Current squared time	ľt	3ms≦tp<8.3ms, Tj=25°C, per diode	166	A ² s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

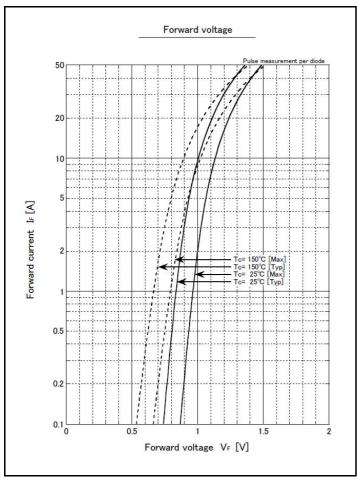
^{* :}See the original Specifications

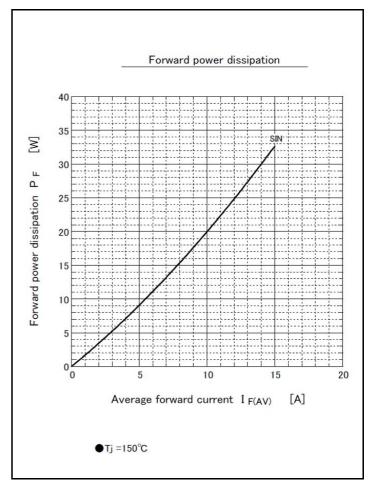
Electrical Characteristics (unless otherwise specified : Tc=25°C)

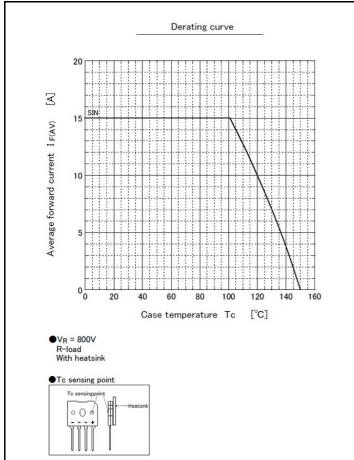
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Forward voltage	V _F	IF=7.5A, Pulse measurement, per diode			1.1	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			35	°C/W

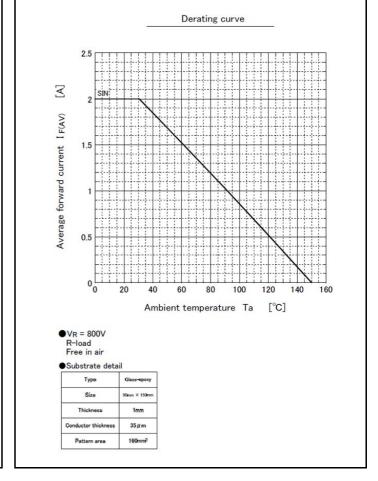
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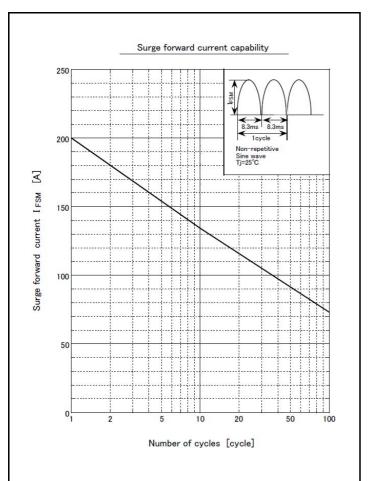
CHARACTERISTIC DIAGRAMS

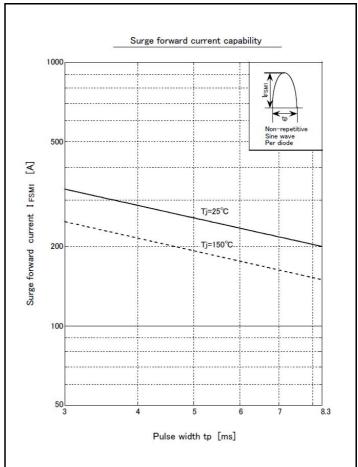








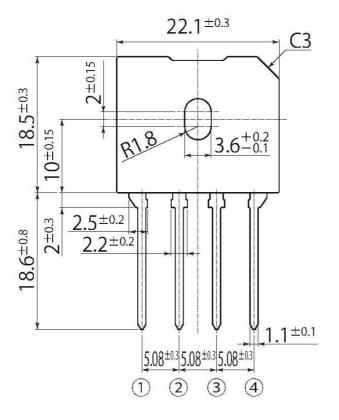


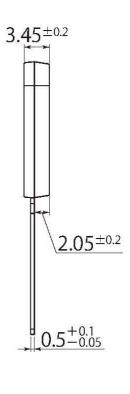


unit:mm

D11

JEDEC Code	_
JEITA Code	_
House Name	D6K





Notes

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(Special applications)

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(Specific applications)

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