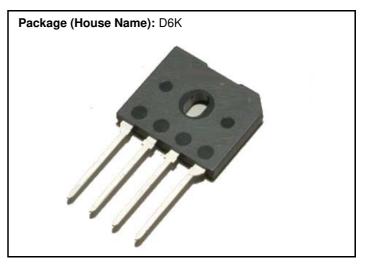
US30KB80R

Bridge Diodes 800V, 30A

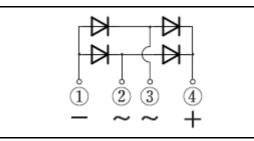
Feature

- 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=97°C	30	A
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=27°C *	2.1	A
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	A
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1000	А
Current squared time	ľt	1ms≦tp<8.3ms, Tj=25°C, per diode	510	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

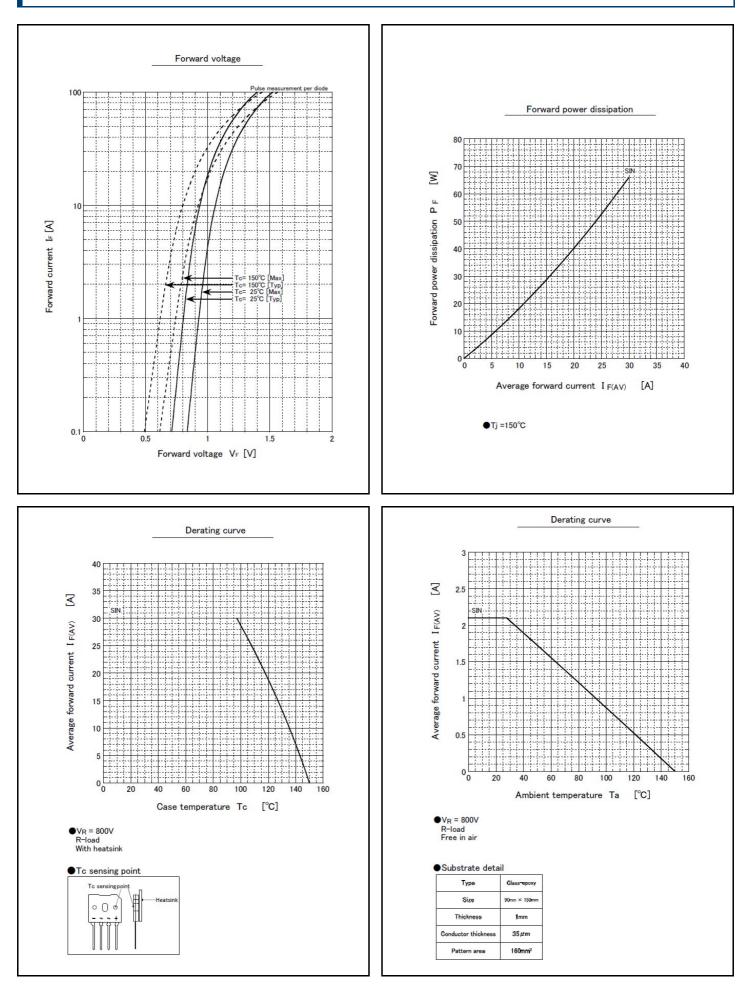
Electrical Characteristics (unless otherwise specified : Tc=25°C)								
		Conditions	Ratings					
Item	Symbol							
			MIN	ТҮР	MAX			
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			1.1			
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10			
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.8			
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5			
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			35			

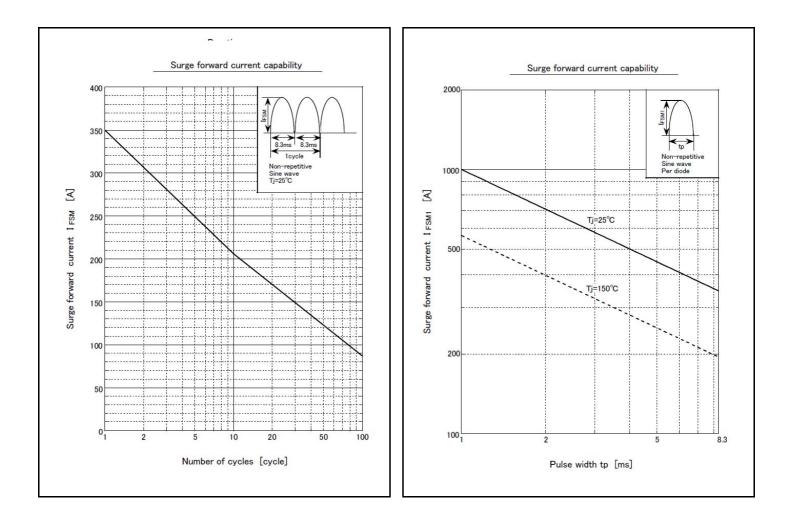
* : See the original Specifications

Unit

V μA °C/W °C/W

CHARACTERISTIC DIAGRAMS

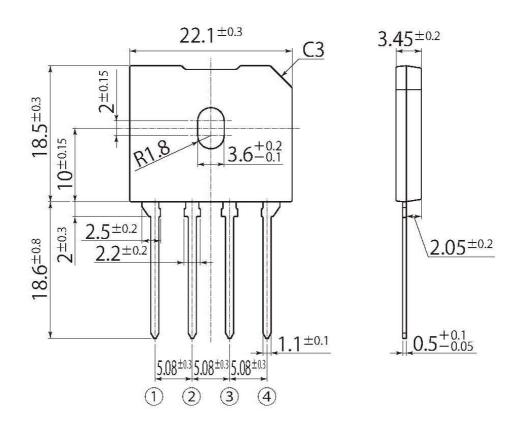




unit:mm

D11

JEDEC Code	—
JEITA Code	_
House Name	D6K



Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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