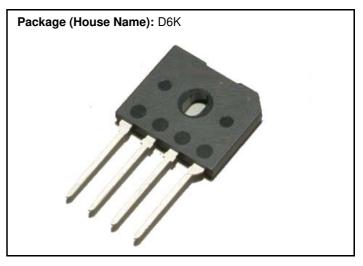
US30KBV80FR

Bridge Diodes 800V, 30A

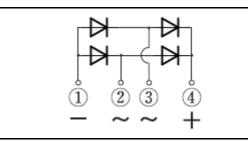
Feature

- Small · Compact SIP
- UL E142422
- Halogen free
- 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 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, With heatsink, Tc=126°C	30	А
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	2.8	А
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	А
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1010	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	

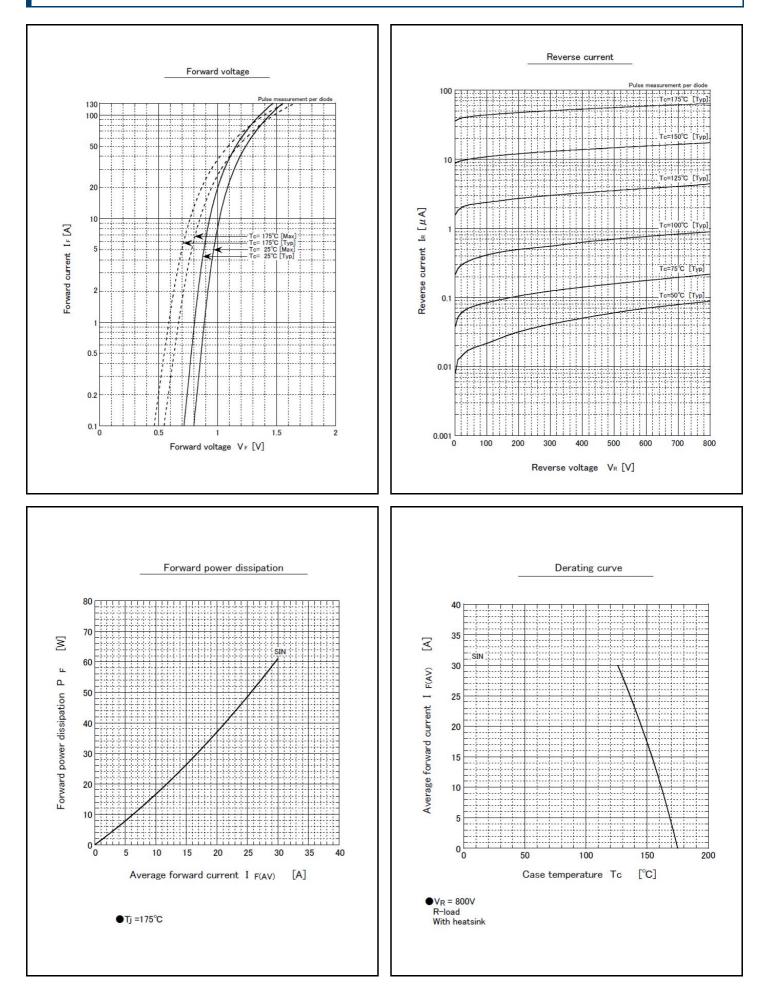
* : See the original Specifications

Electrical Characteristics (unless otherwise specified : Tc=25°C)	
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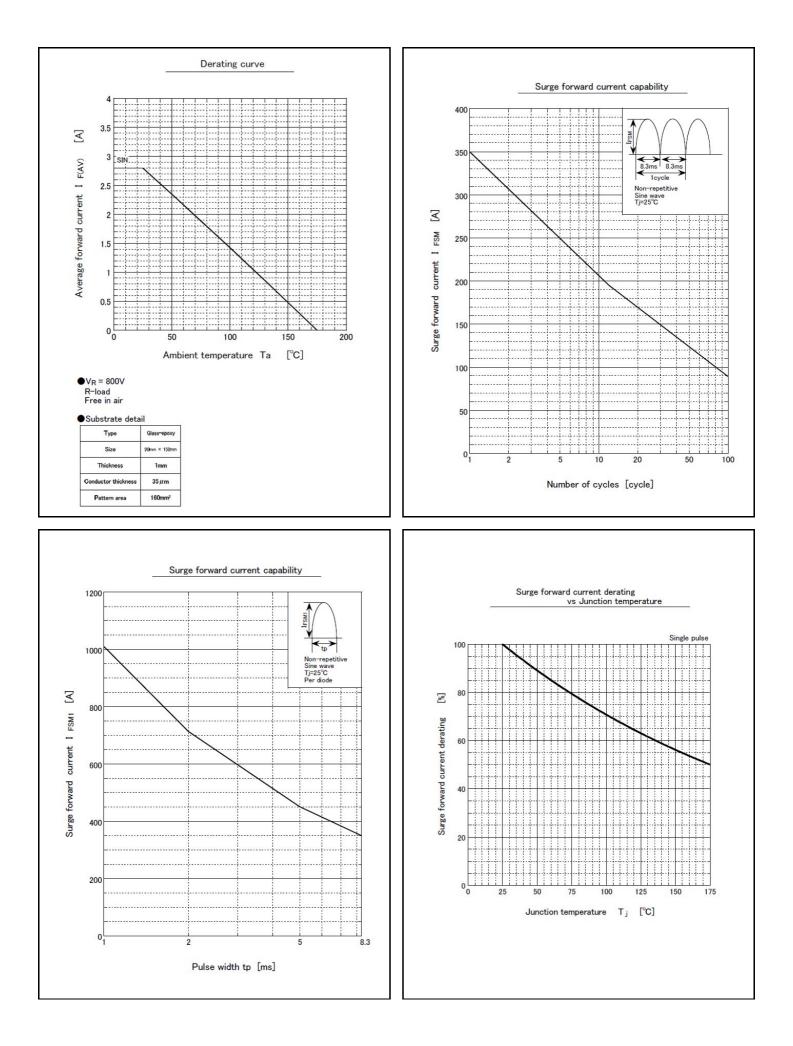
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			5	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.8	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			35	°C/W

*:See the original Specifications

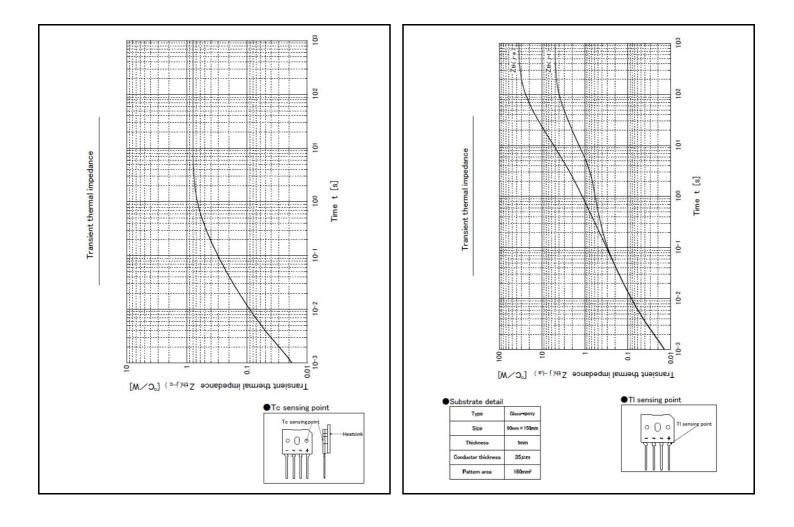
CHARACTERISTIC DIAGRAMS



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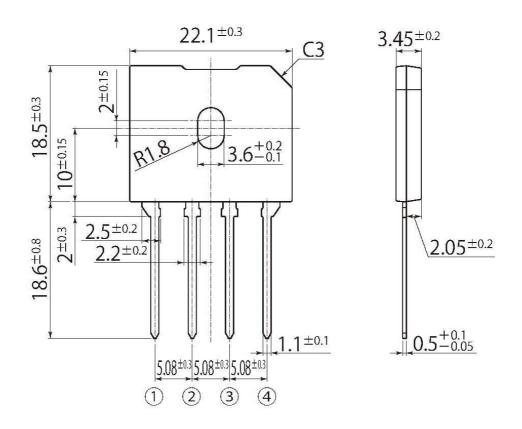
4/7



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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