

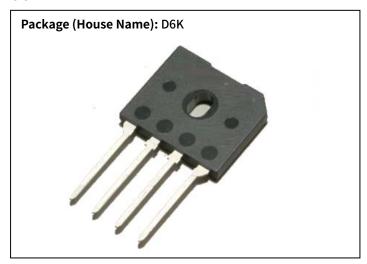
US25KB80R

Bridge Diodes 800V, 25A

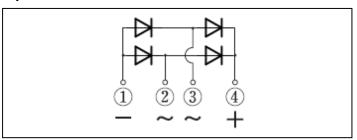
Feature

- 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 _{RRM}		800	V
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, With heatsink, Tc=98°C	25	А
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, Without heatsink, Tl=132°C	2.25	А
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, Without heatsink, Ta=25°C	2.25	А
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	300	А
Surge forward current	I _{FSM1}	tp=2ms, Tj=25°C, Non-repetitive	612	Α
Current squared time	l ² t	2ms≦tp<8.3ms, Tj=25°C, per diode	375	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

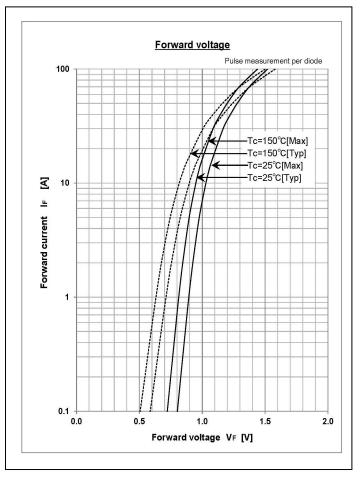
※ ∶See the original Specifications

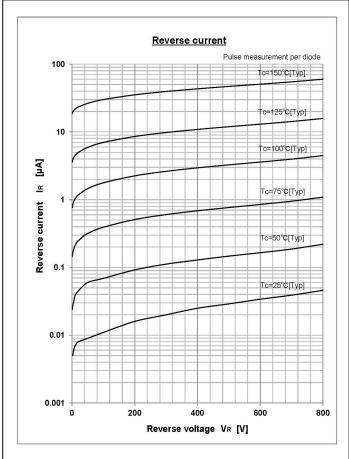
Electrical Characteristics (unless otherwise specified : Tc=25°C)

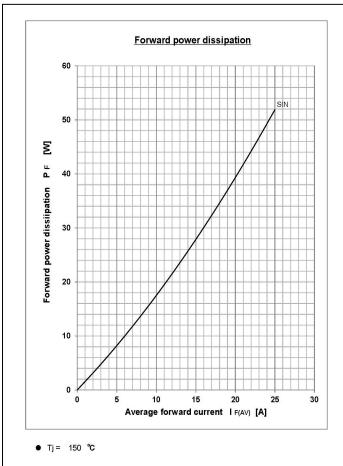
Item	Symbol	Conditions	Ratings			l lmit
			MIN	TYP	MAX	Unit
Forward voltage	V _F	IF=12.5A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μΑ
Reverse recovery time	trr	IF=0.1A, IR=0.1A, 0.1 IR per diode			20	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1	°C/W
Thermal resistance	Rth(j-l)	Junction to lead,			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient,			35	°C/W

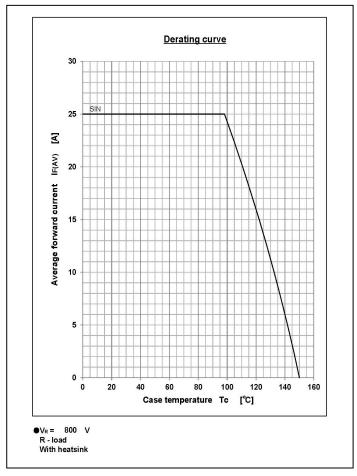
[※] ∶See the original Specifications

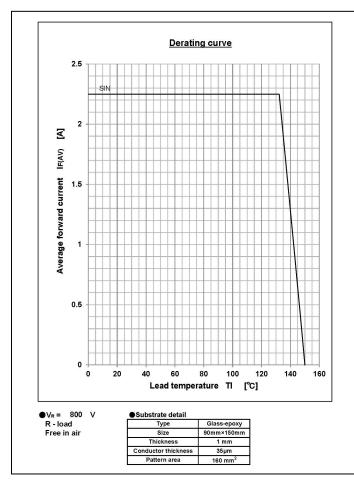
CHARACTERISTIC DIAGRAMS

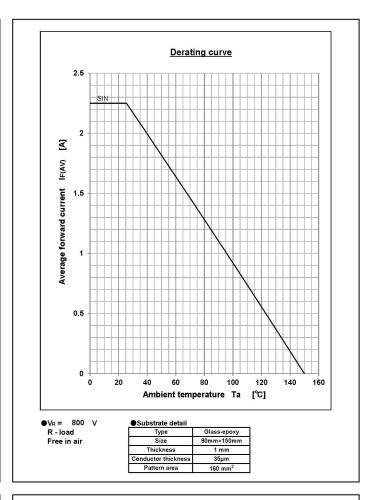


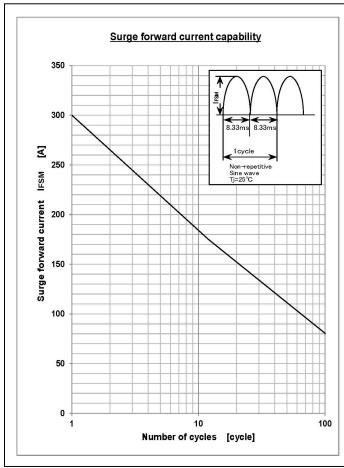


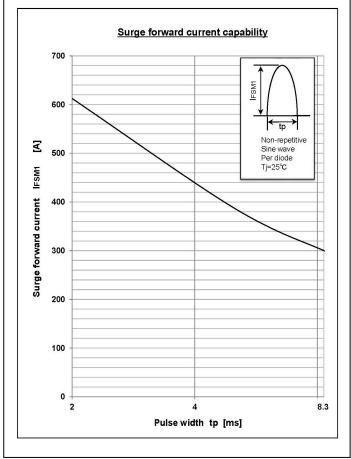


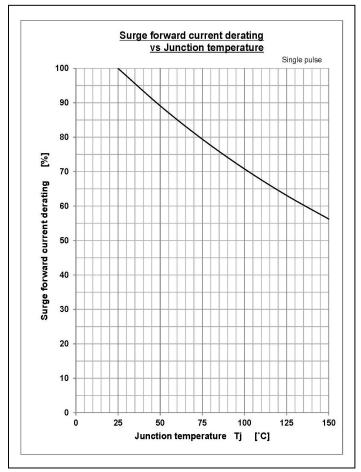


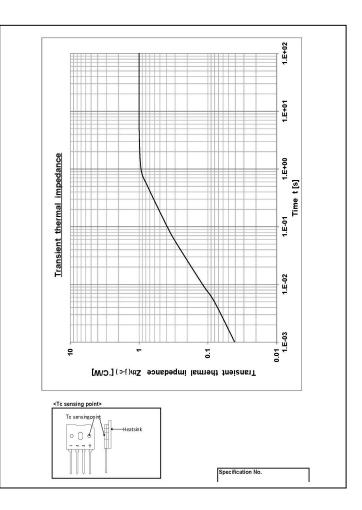


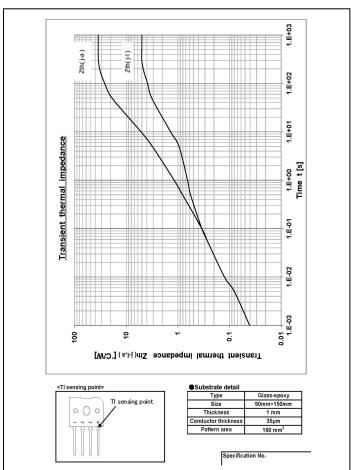






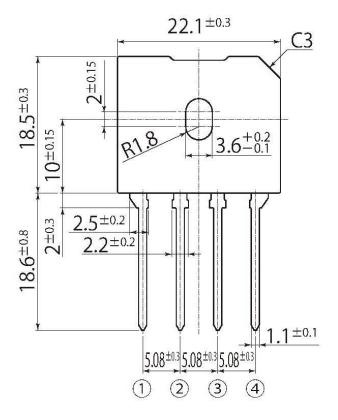


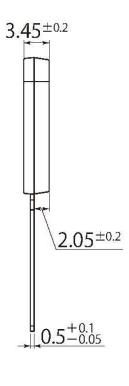




D11

JEDEC Code	_
JEITA Code	_
House Name	D6K





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