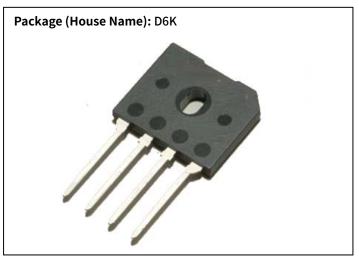
US25KB80HR Bridge Diodes 800V, 25A

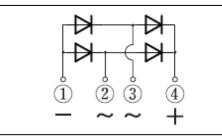
Feature

- 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=109°C	25	A
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, Without heatsink, Tl=132°C	2.26	A
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, Without heatsink, Ta=25°C	2.26	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=2ms, Tj=25°C, Non-repetitive	1000	А
Current squared time	l ² t	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

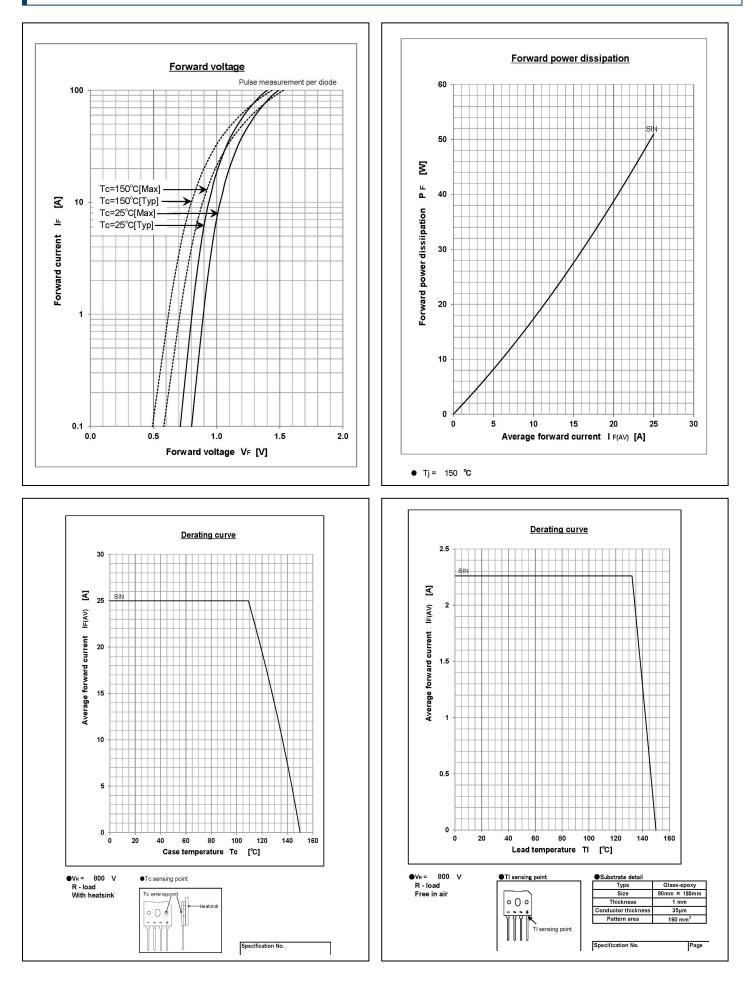
※ ∶See the original Specifications

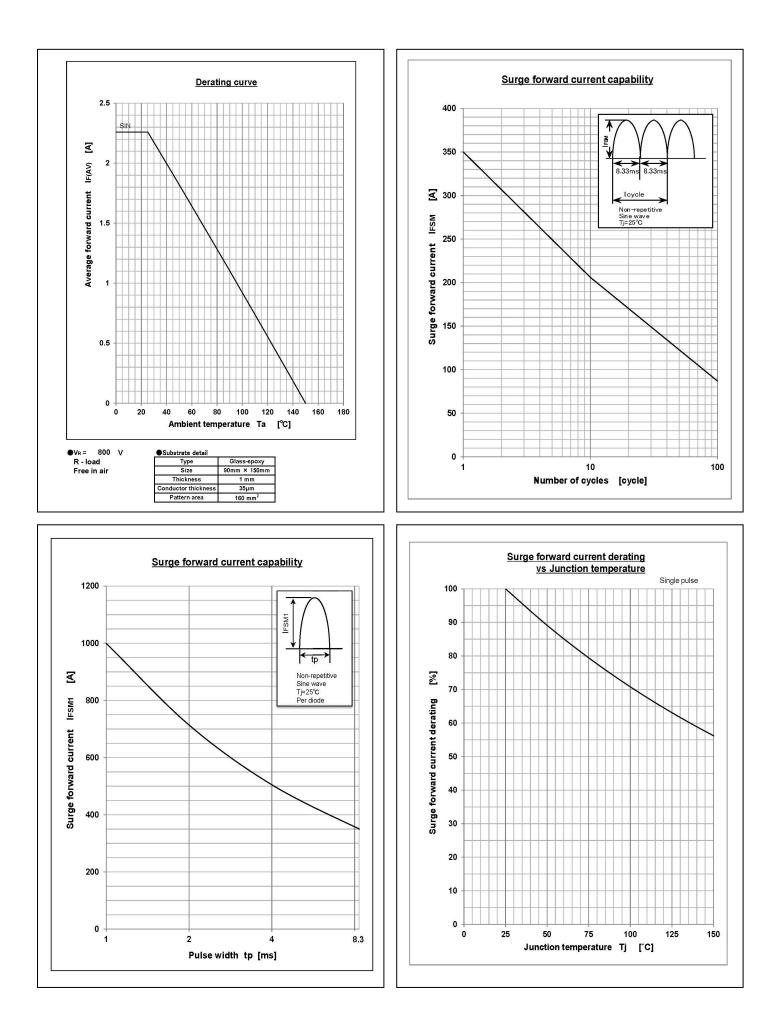
Shindengen Electric Manufacturing Co., Ltd.

Electrical Characteristics (unless otherwise specified : Tc=25°C)								
Item	Complete	Conditions	Ratings					
	Symbol		MIN	ТҮР	МАХ	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	μA		
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			0.8	°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

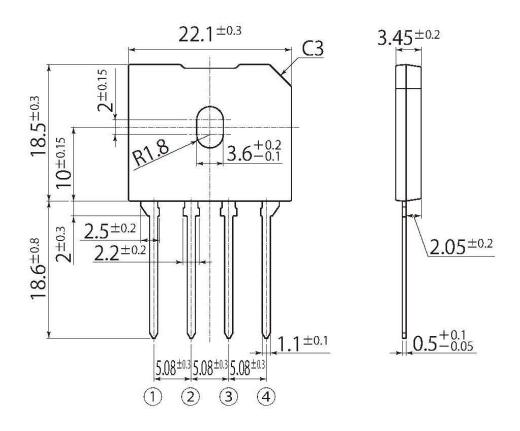




unit:mm

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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