

UD2KB80

Bridge Diodes
800V, 2A

Feature

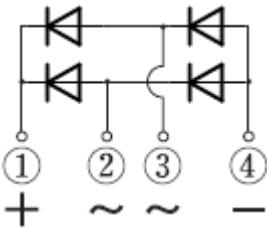
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): D3K



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	VRRM		800	V
Average forward current	IF(AV)	60Hz sine wave, Resistance load, With heatsink, Tc=143°C	2	A
Average forward current	IF(AV)	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	1.2	A
Surge forward current	IFSM	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	62	A
Current squared time	I ² t	3ms≦tp<8.3ms, Tj=25°C, per diode	16	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

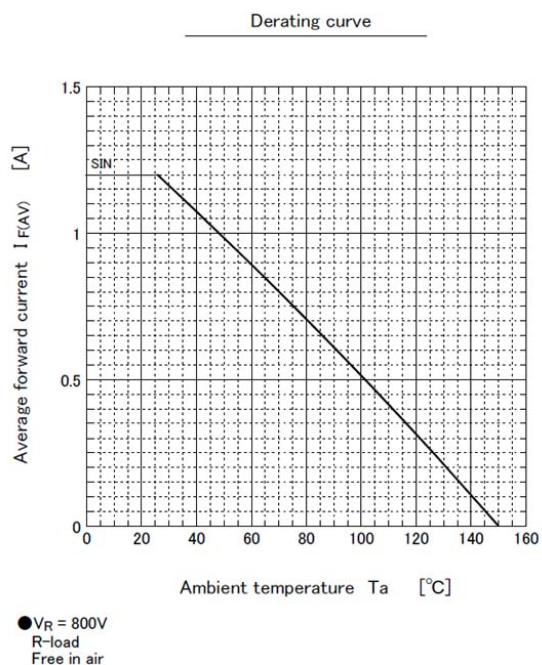
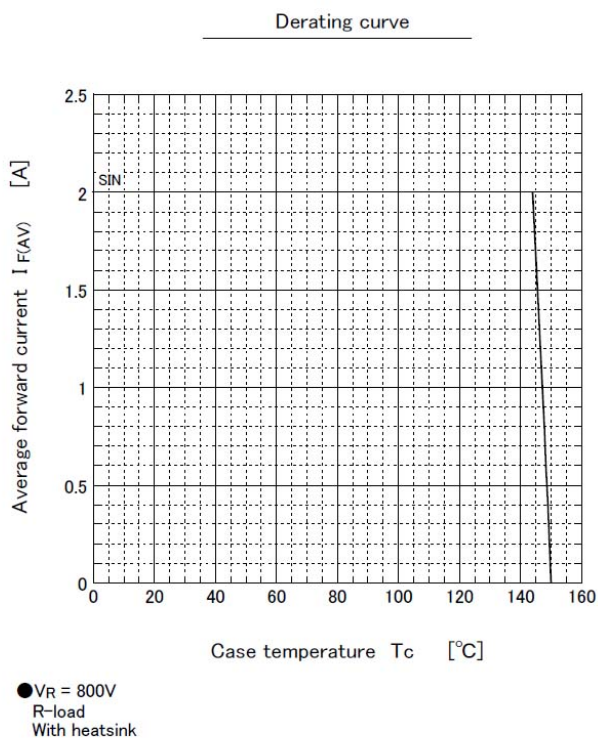
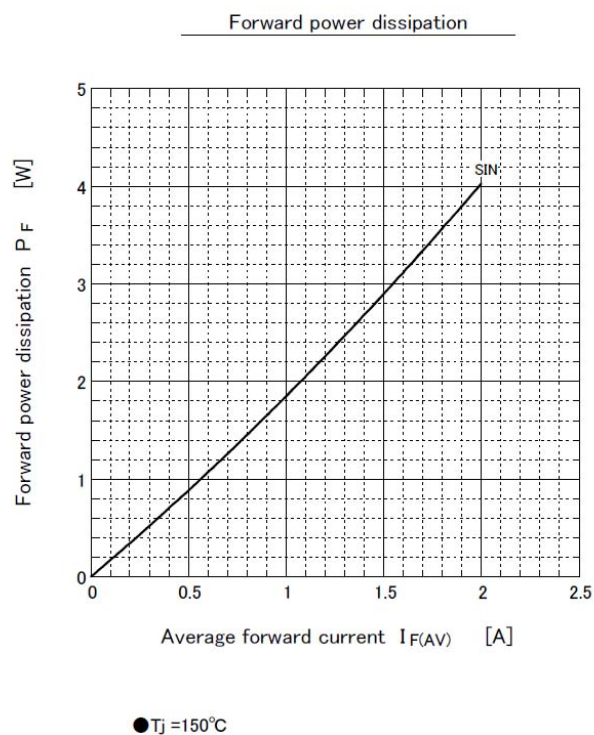
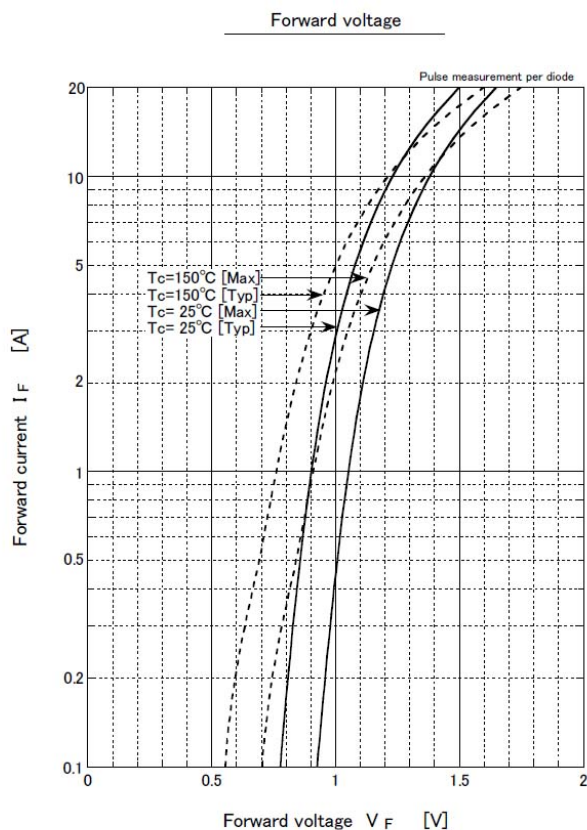
※ :See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =1.0A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	V _R =800V, Pulse measurement, per diode			10	μA
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			1.5	°C/W
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate ※			15	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate ※			55	°C/W

※ :See the original Specifications

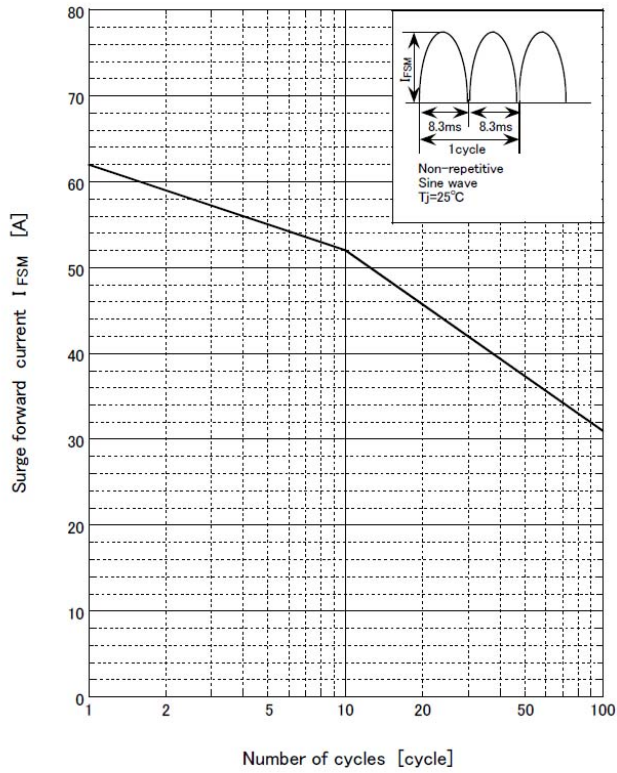
CHARACTERISTIC DIAGRAMS



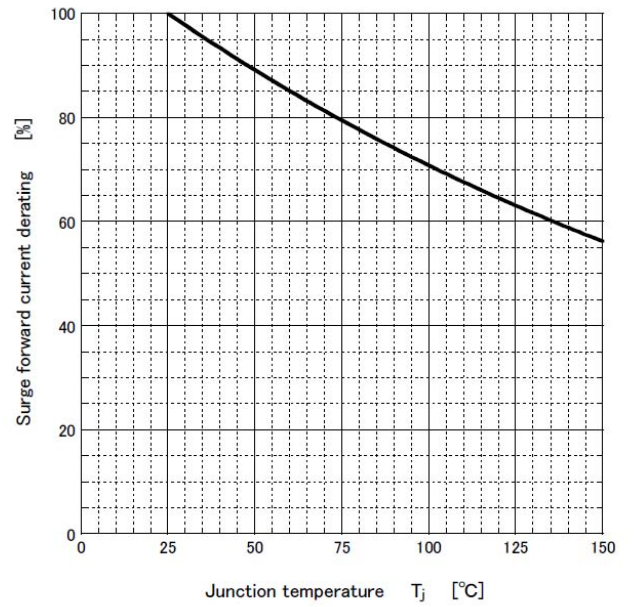
$\bullet$ Substrate detail

Type	Glass-epoxy
Size	90mm × 150mm
Thickness	1mm
Conductor thickness	35 μm
Pattern area	612mm ²

Surge forward current capability

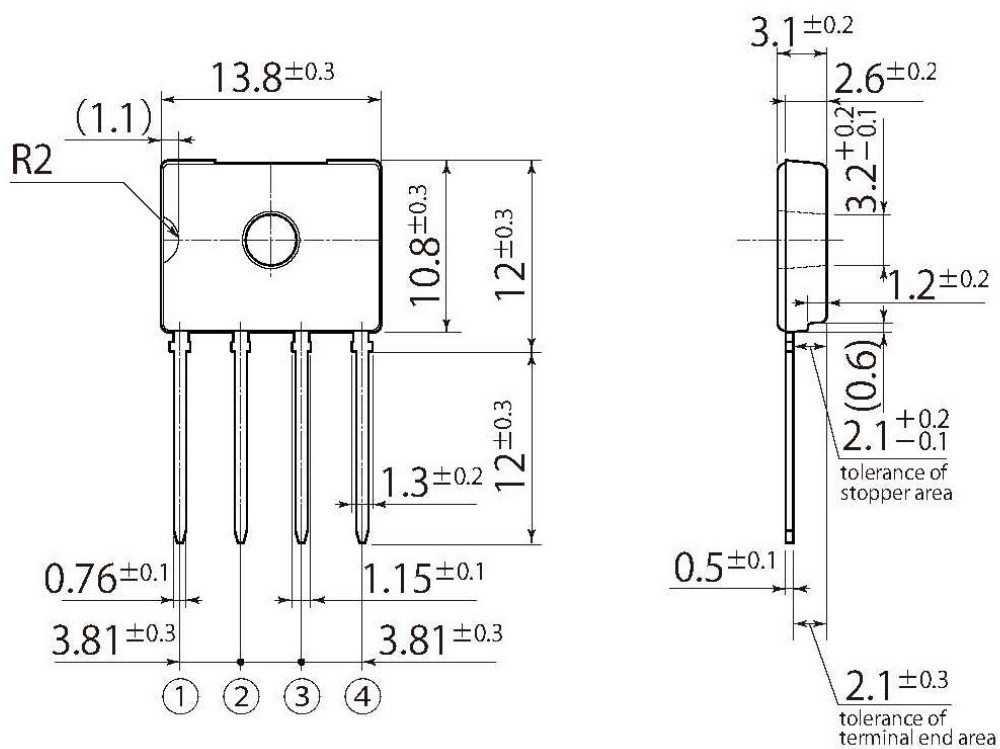


Surge forward current derating
vs Junction temperature



D1

JEDEC Code	—
JEITA Code	—
House Name	D3K



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