

UD4KB80

Bridge Diodes
800V, 4.0A

Feature

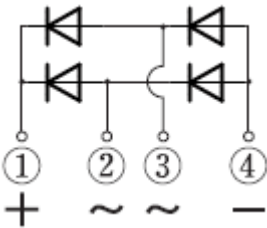
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

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		150	°C
Repetitive peak reverse voltage	VRRM		800	V
Average forward current	IF(AV)	60Hz sine wave, Resistance load, With heatsink, Tc=138°C	4	A
Average forward current	IF(AV)	60Hz sine wave, Resistance load, Without heatsink, Ta=30°C	1.3	A
Surge forward current	IFSM	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	135	A
Current squared time	I ² t	3ms≦t<8.3ms, Tj=25°C, per diode	75	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

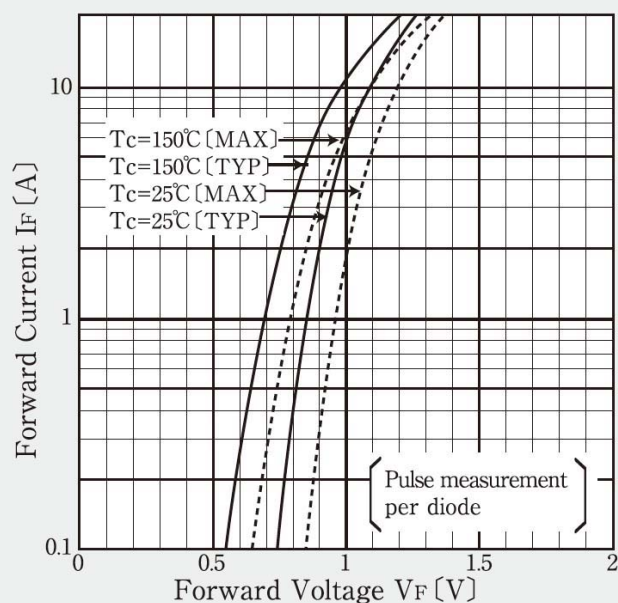
※ :See the original Specifications

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

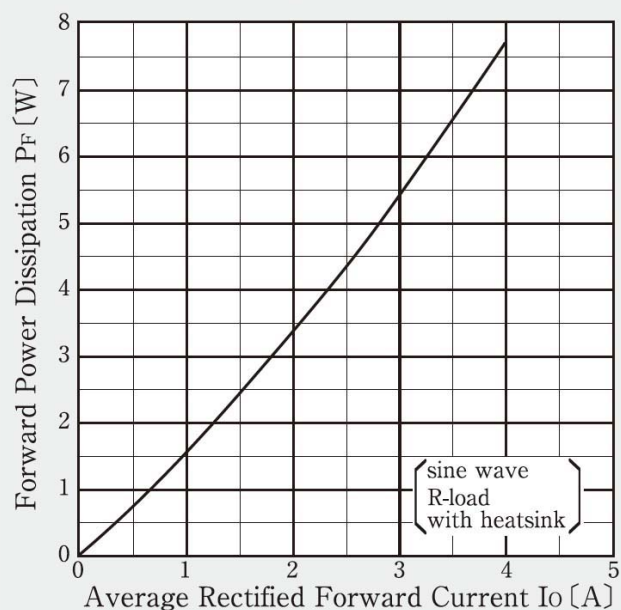
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=2A$, Pulse measurement, per diode			1	V
Reverse current	I_R	$V_R=800V$, Pulse measurement, per diode			10	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			1.5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-l)}$	Junction to lead, Without heatsink			15	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, Without heatsink			55	$^{\circ}C/W$

※ :See the original Specifications

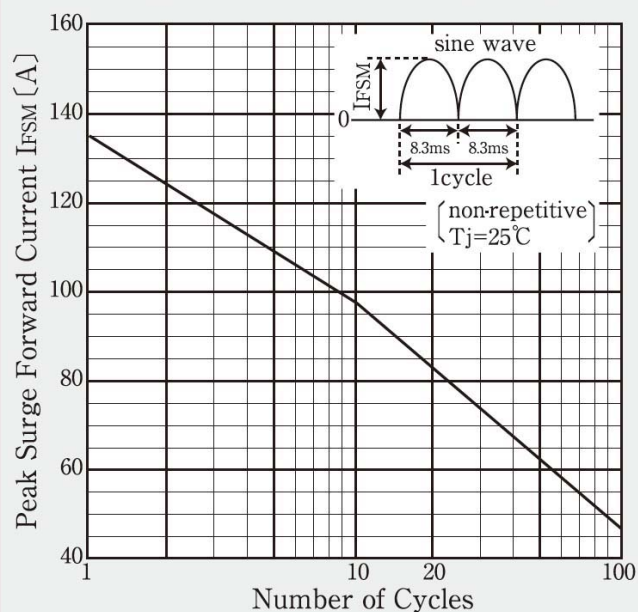
Forward Voltage



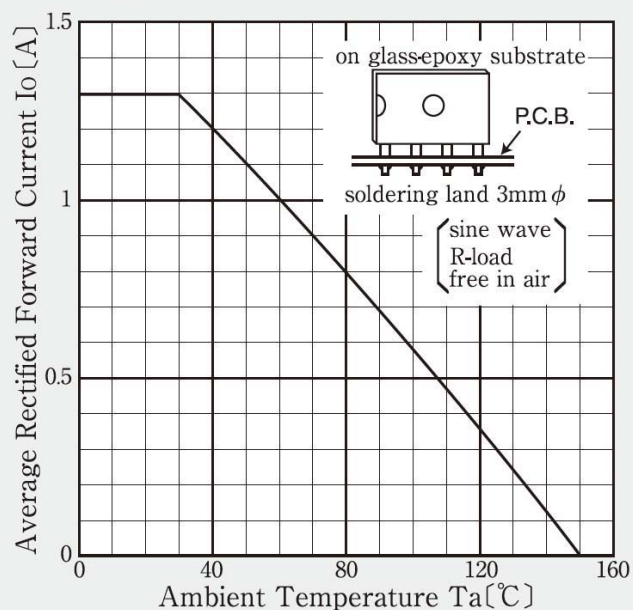
Forward Power Dissipation

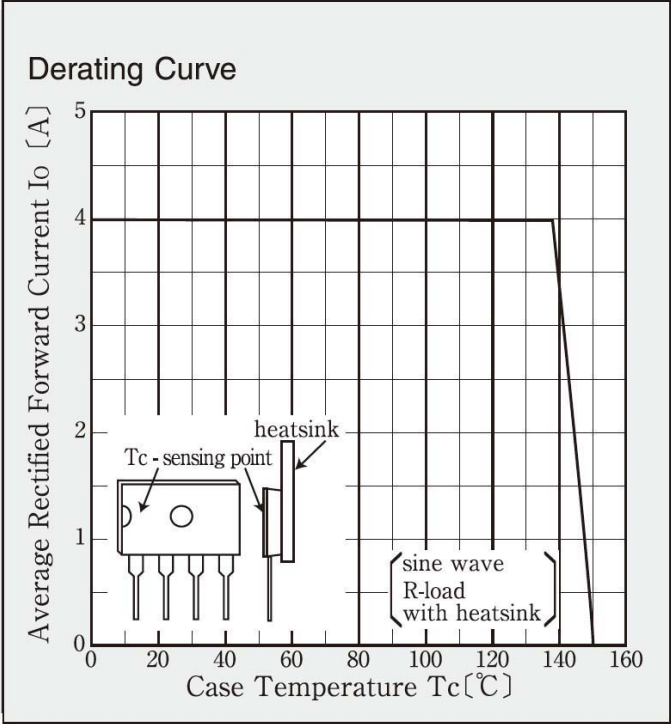


Peak Surge Forward Current Capability



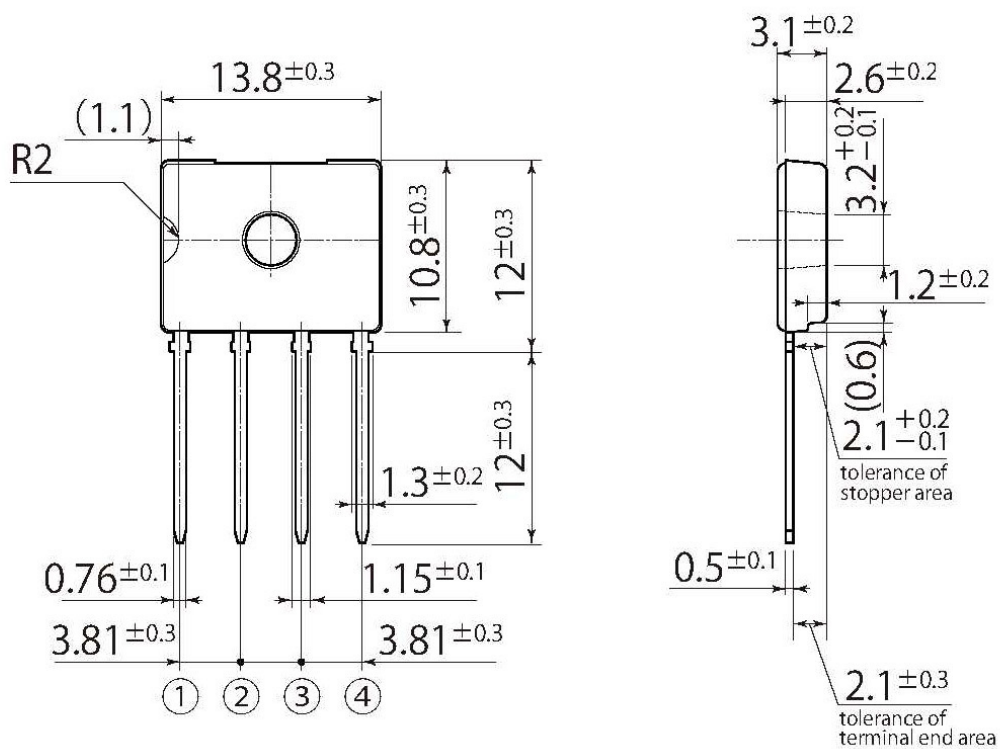
Derating Curve





D1

JEDEC Code	—
JEITA Code	—
House Name	D3K



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