

UD8KBA80

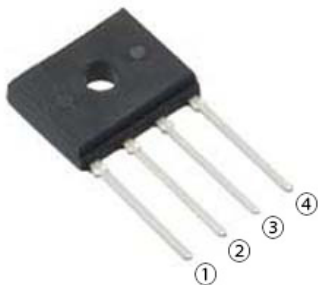
Bridge Diodes
800V, 8A

Feature

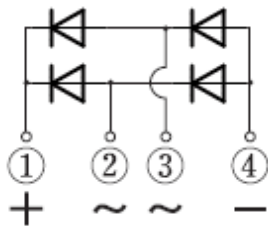
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

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	V _{RRM}		800	V
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, With heatsink, Tc=126°C	8	A
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, Without heatsink, Ta=25°C	1.4	A
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	165	A
Surge forward current	I _{FSM1}	tp=3ms, Tj=25°C, Non-repetitive	270	A
Current squared time	I ² t	3ms≤t<8.3ms, Tj=25°C	110	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

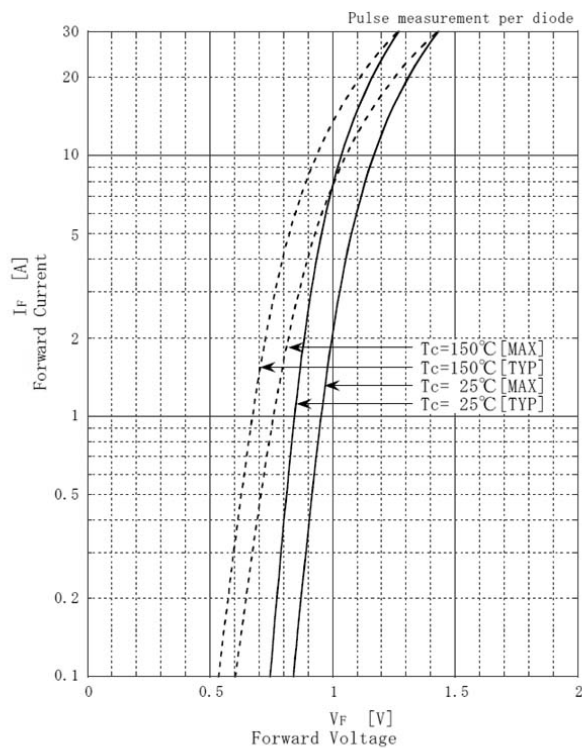
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=4A, Pulse measurement, per diode			1.05	V
Reverse current	I_R	VR=800V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink			15	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			55	°C/W

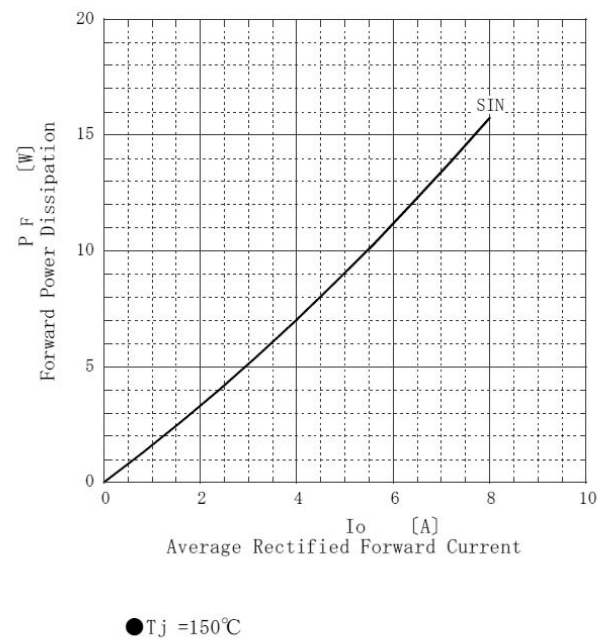
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

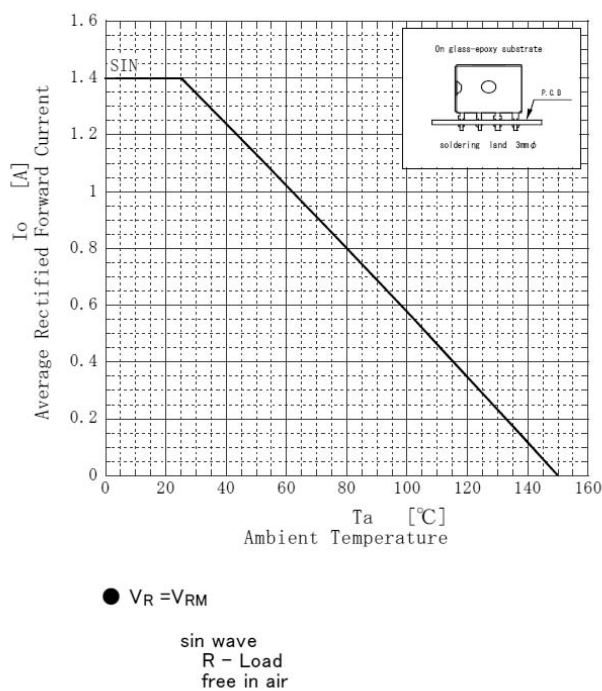
UD8KBA80 Forward Voltage



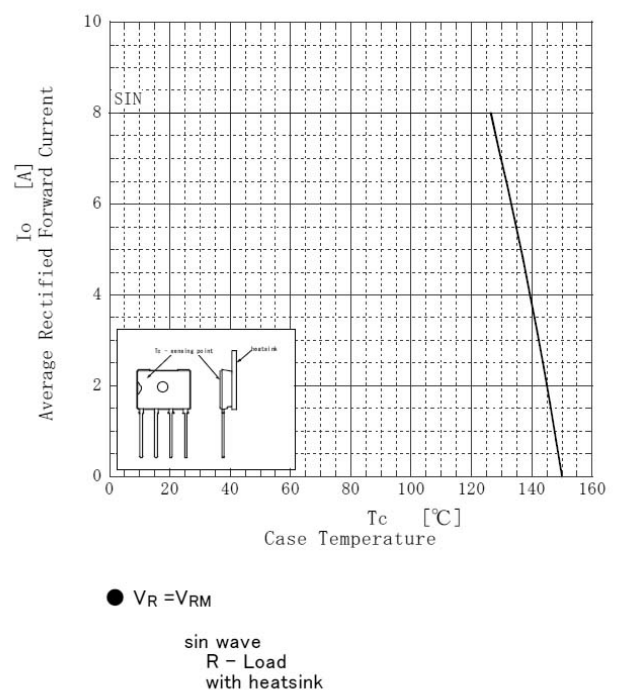
UD8KBA80 Forward Power Dissipation



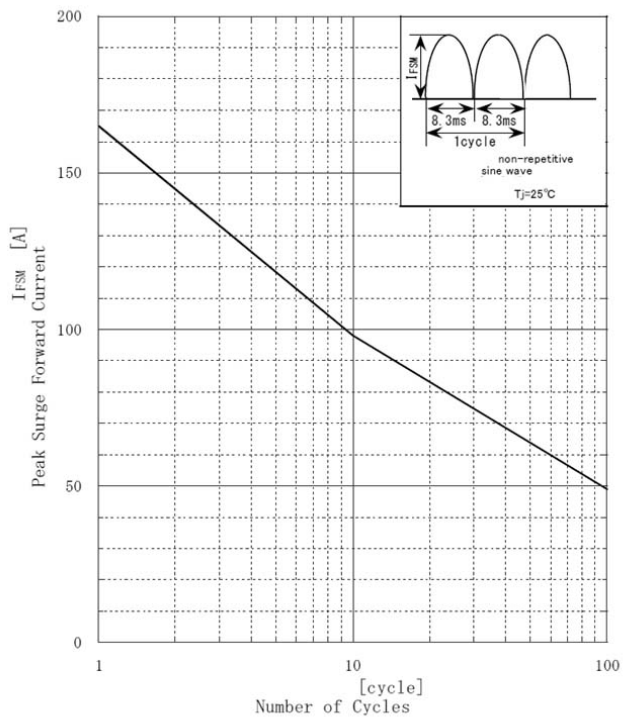
UD8KBA80 Derating Curve



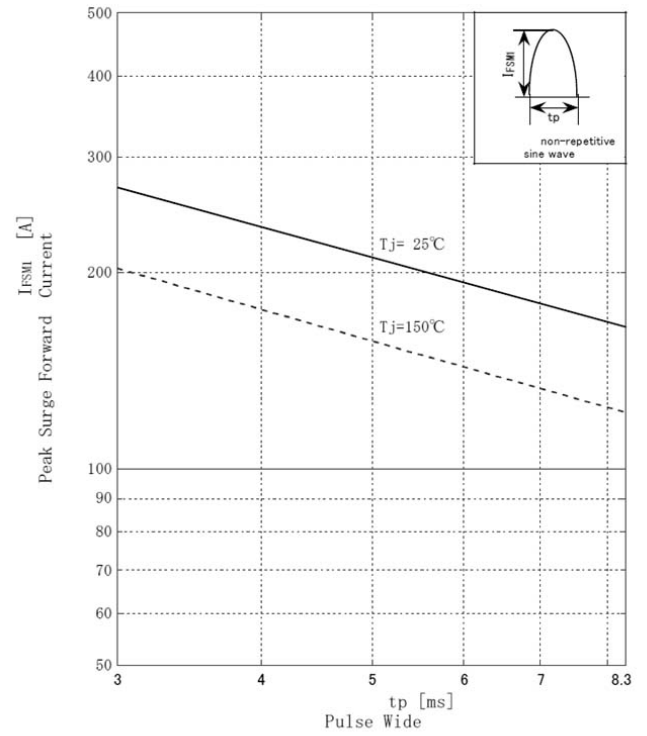
UD8KBA80 Derating Curve



UD8KBA80 Peak Surge Forward Capability

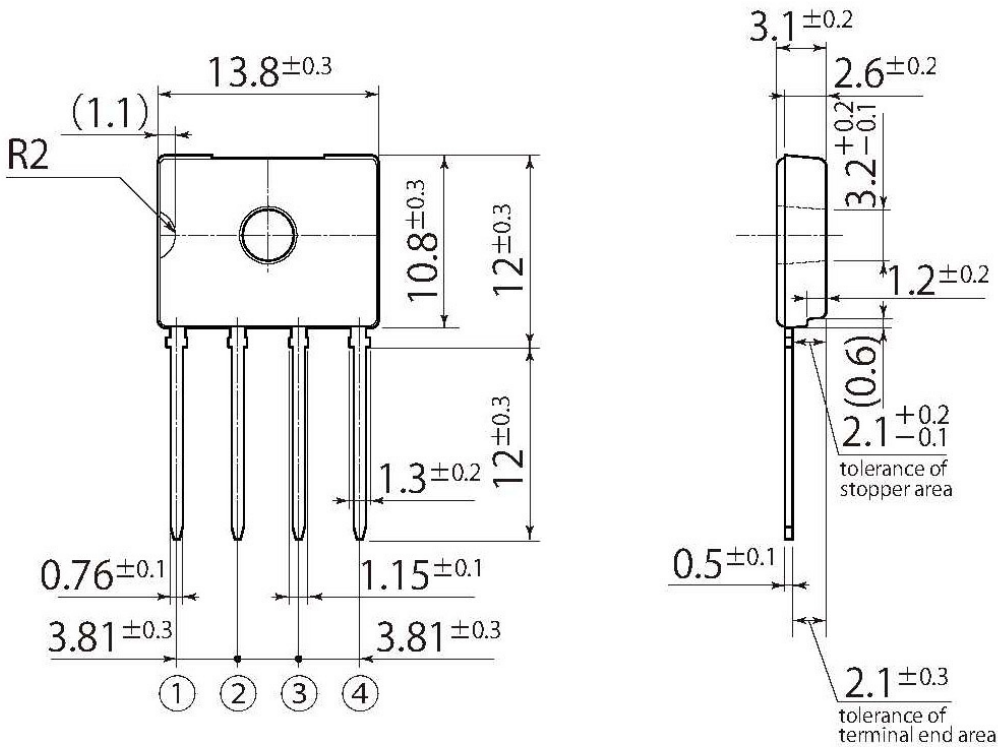


UD8KBA80 Peak Surge Forward Capability



D1

JEDEC Code	—
JEITA Code	—
House Name	D3K



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