

# UG8KB80-E

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V

Current: 8.0A

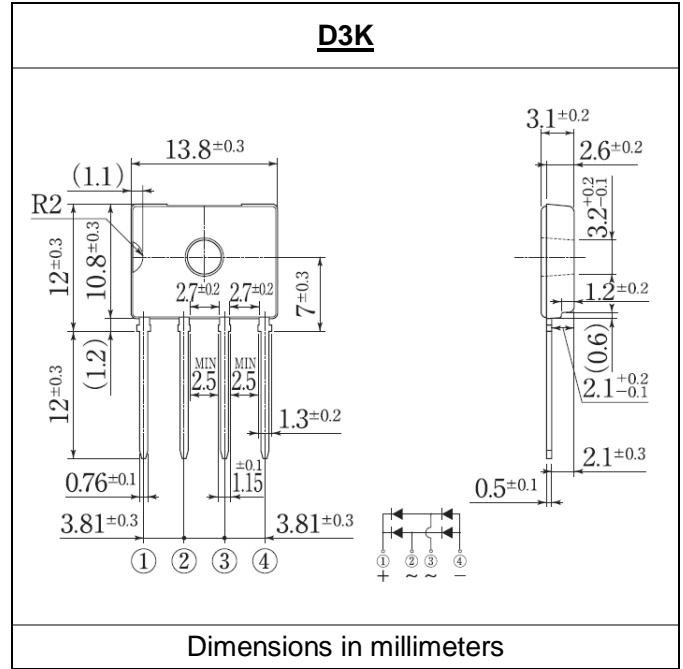


### Features

Glass passivated chip junction  
High case dielectric strength  
High surge current capability  
Ideal for printed circuit board  
Halogen Free

### Mechanical Data

Terminal: Plated leads solderable per J-STD-002  
Case: UL-94 Class V-0 recognized Halogen Free Epoxy  
Polarity: Polarity symbol marked on body  
Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

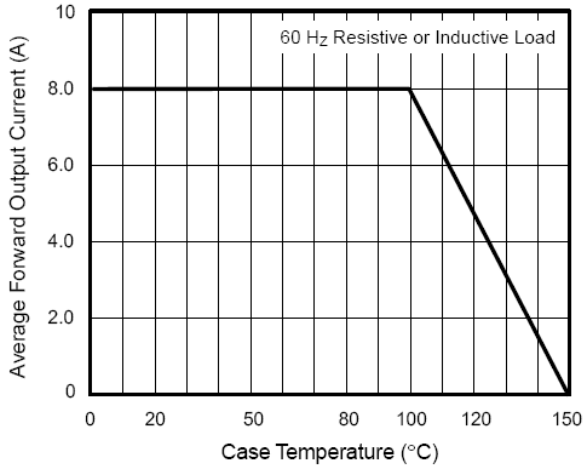
(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	UG8KB80-E	units
Maximum repetitive peak reverse voltage	V <sub>rrm</sub>	800	V
Maximum RMS voltage	V <sub>rms</sub>	560	V
Maximum DC blocking voltage	V <sub>dc</sub>	800	V
Maximum average forward rectified output current T <sub>c</sub> 100°C with heatsink	I <sub>f(av)</sub>	8.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I <sub>fsm</sub>	165	A
Maximum instantaneous forward voltage drop per leg at 4.0A	V <sub>f</sub>	1.05	V
Rating for fusing (3ms ≤ t < 8.3ms)	I <sup>2</sup> t	110	A <sup>2</sup> Sec
Maximum DC reverse current at rated DC blocking voltage per leg	I <sub>r</sub>	10.0 500	μA
Thermal resistance with heatsink without heatsink	R <sub>th(jc)</sub>	1.5 12.0	°C/W
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C

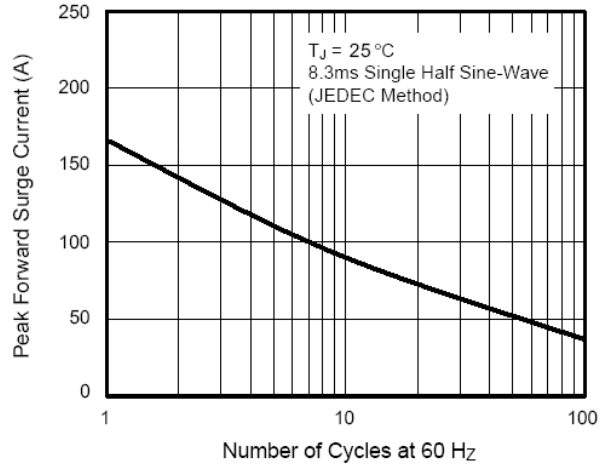
Note:

## RATINGS AND CHARACTERISTIC CURVES UG8KB80-E

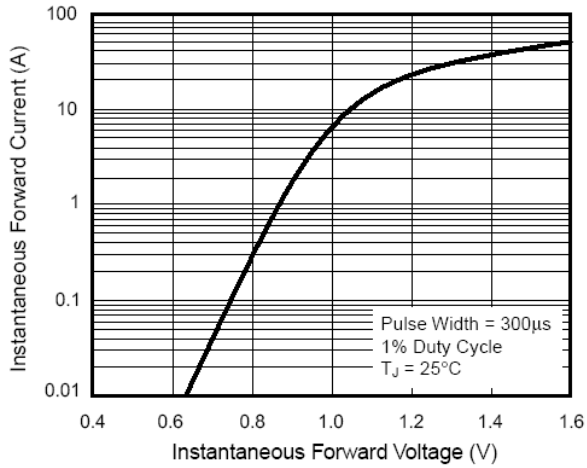
**Fig. 1 – Derating Curve Output Rectified Current**



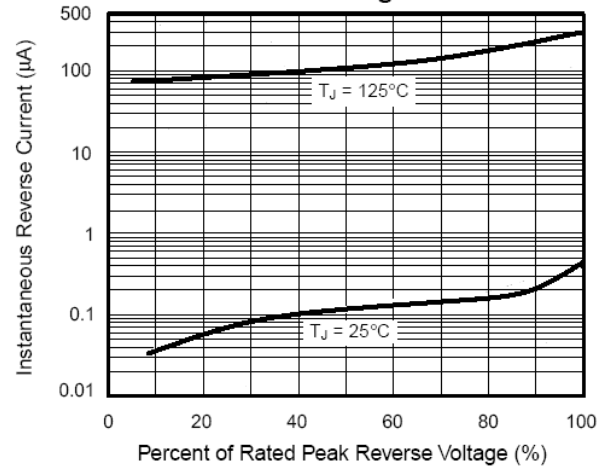
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



**Fig. 3 – Typical Forward Characteristics Per Leg**



**Fig. 4 – Typical Reverse Characteristics Per Leg**



**Fig. 5 – Typical Junction Capacitance Per Leg**

