

**Glass Passivated Bridge Rectifiers****Reverse Voltage 50 - 1000 Volts
Forward Current - 8.0 Amperes****Features**

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

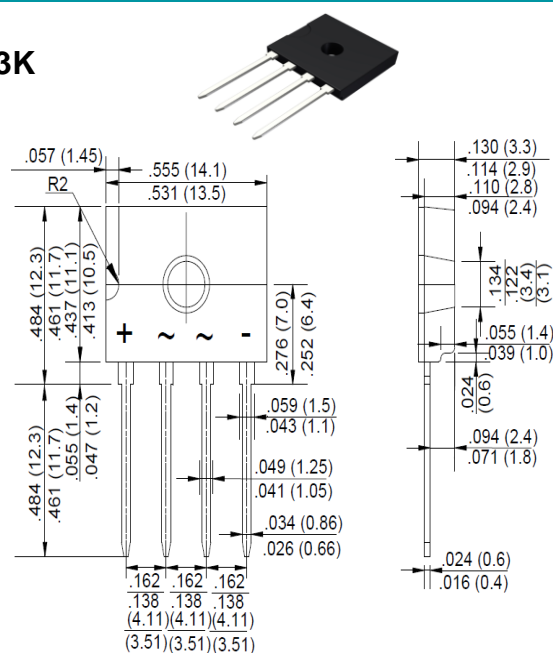
Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

D3K**RoHS
COMPLIANT**

Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	D8KB05	D8KB1	D8KB2	D8KB4	D8KB6	D8KB8	D8KB10	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TC=125 °C(with heatsink)	I(AV)	8							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	170							A
I²t Rating for Fusing (t<8.3mS)	I²t	119.9							A²s
Peak Forward Voltage per Diode at 4.0A DC	VF	1.0							V
Typical Thermal Resistance to Ambient(Note1) (with heatsink)	RθJA	12							°C/W
Typical Thermal Resistance to case (Note1) (with heatsink)	RθJC	2.5							
Typical Thermal Resistance to lead(Note1) (with heatsink)	RθJL	2							
Maximum DC Reverse Current at Rated @TJ=25°C	IR	5.0							µA
DC Blocking Voltage per Diode @TJ=125°C		500							
Operating Junction Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

Note: 1. Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.

2.The typical data above is for reference only .



Fig. 1 - Forward Current Derating Curve

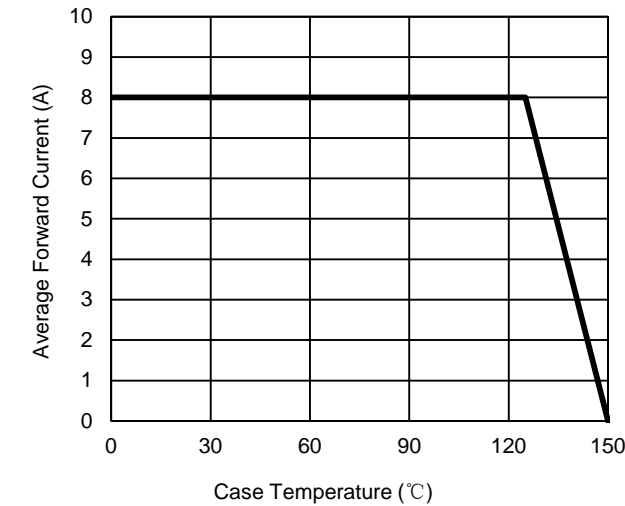


Fig. 2 - Maximum Non-Repetitive Surge Current

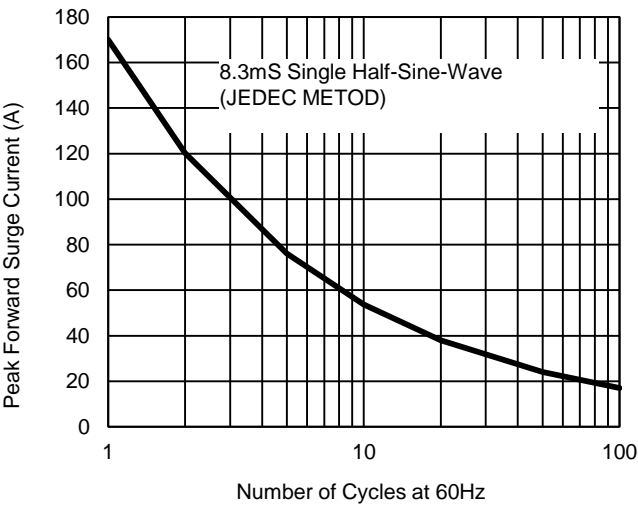


Fig. 3 - Typical Reverse Characteristics

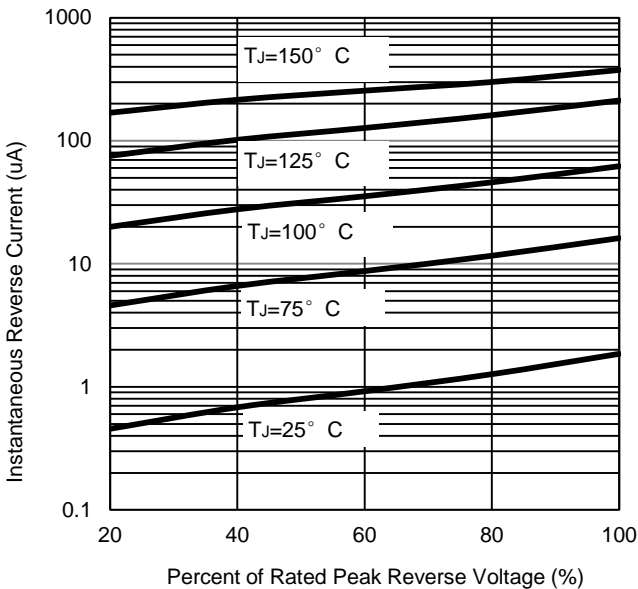
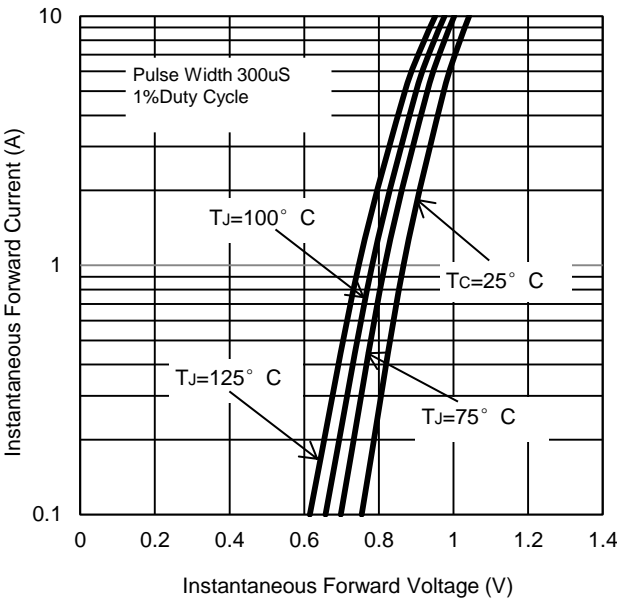


Fig. 4 - Typical Forward Characteristics





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