

D8KB05~D8KB100

Single Phase 8.0Amp Glass passivated Bridge Rectifiers

Features

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

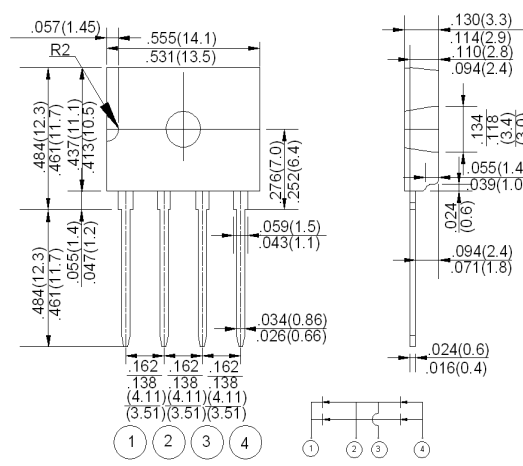
Mechanical Data

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

Applications

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

D3K



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristics	Symbol	D8KB05	D8KB10	D8KB20	D8KB40	D8KB60	D8KB80	D8KB100	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	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)	I _{FSM}	170							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	119.9							A ² s
Peak Forward Voltage per Diode at 4.0A DC	V _F	1.0							V
Typical Thermal Resistance to Ambient(Note1) (with heatsink)	R _{θJA}	12							°C/W
Typical Thermal Resistance to case (Note1) (with heatsink)	R _{θJC}	2.5							
Typical Thermal Resistance to lead(Note1) (with heatsink)	R _{θJL}	2							
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	5.0							μA
DC Blocking Voltage per Diode @T _J =125°C		500							
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-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 .

Ratings And Characteristic Curves

Fig. 1 - Forward Current Derating Curve

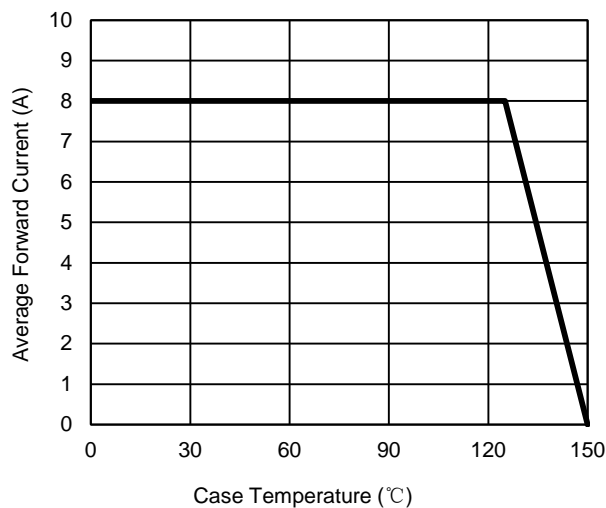


Fig. 2 - Maximum Non-Repetitive Surge Current

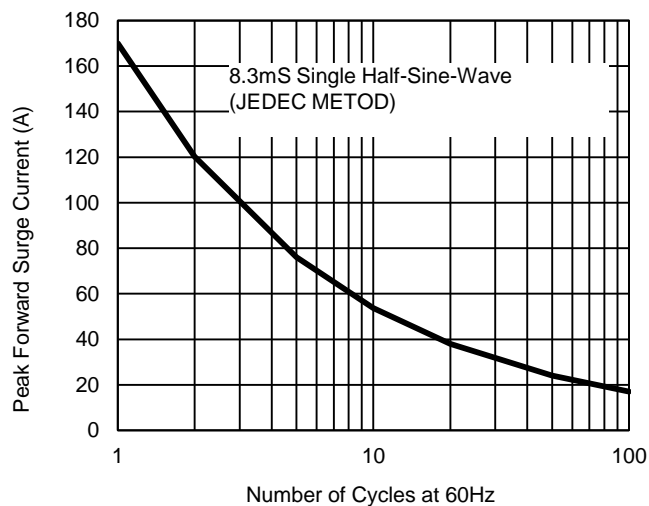


Fig. 3 - Typical Reverse Characteristics

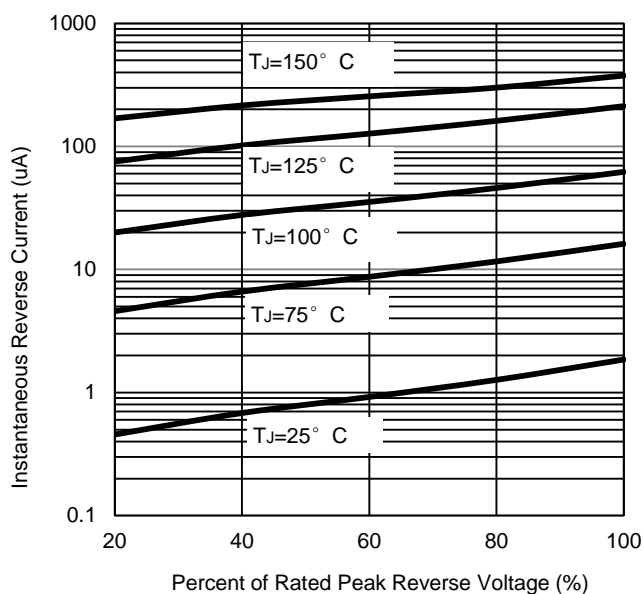


Fig. 4 - Typical Forward Characteristics

