

# Kingtronics®

# D4UB05 THRU D4UB100

## Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 4.0 Amperes

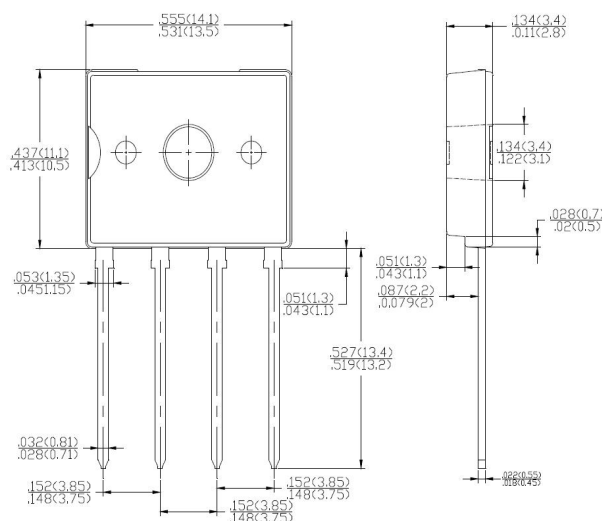
### FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed:  
250°C / 10 seconds / 0.375" ( 9.5mm )  
lead length at 5 lbs., ( 2.3 kg ) tension
- ◆ UL Recognized File number: E347214

### MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked

### Package: D3K



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number		D4UB 05	D4UB 10	D4UB 20	D4UB 40	D4UB 60	D4UB 80	D4UB 100	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>c</sub> =138°C	I(AV)				4.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>				135				A
Maximum Instantaneous Forward Voltage @ 2.0A	V <sub>F</sub>				1.00				V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C rated DC blocking voltage per leg T <sub>A</sub> = 125°C	I <sub>R</sub>				10				μ A
Typical Thermal Resistance (Note 1) (Note 2) (Note 3)	R				55				°C/W
	J <sub>A</sub>				15				
	R <sub>JL</sub>				1.5				
	R <sub>JC</sub>								
Operating Temperature Range	T <sub>J</sub>				-55 to +150				°C
Storage Temperature Range	T <sub>STG</sub>				-55 to +150				°C

**NOTE:** 1. Junction to ambient, Without heatsink. 2. Junction to Lead, Without heatsink. 3. Junction to case, With heatsink.

**Kingtronics® International Company**

## RATING AND CHARACTERISTIC CURVES D4UB05 THRU D4UB100

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE

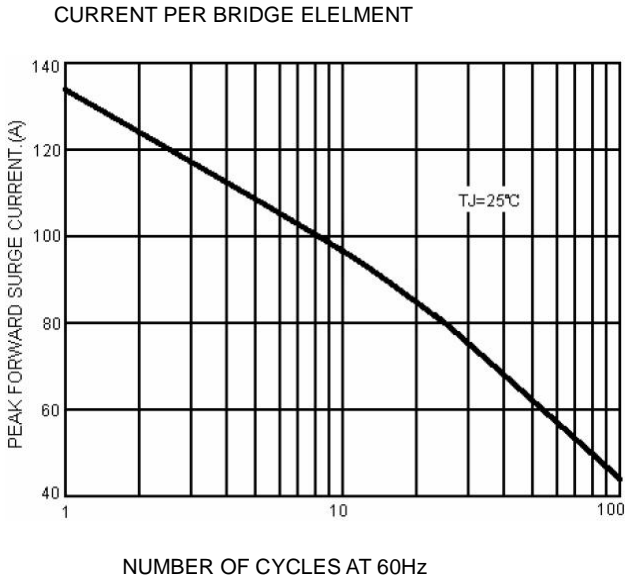


FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE

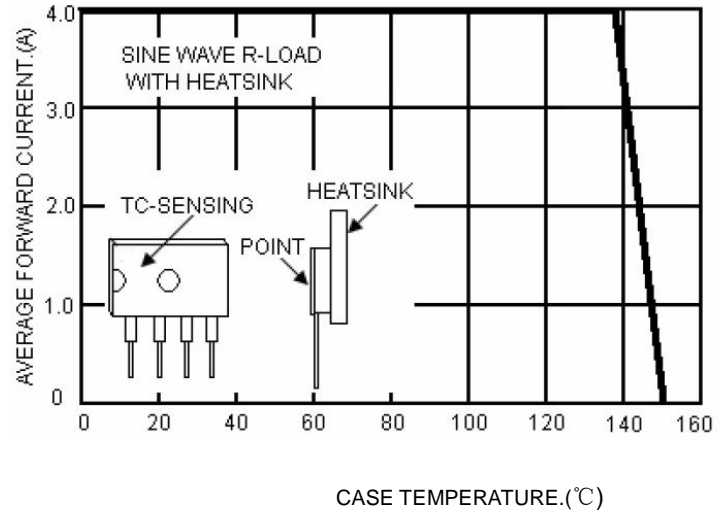


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

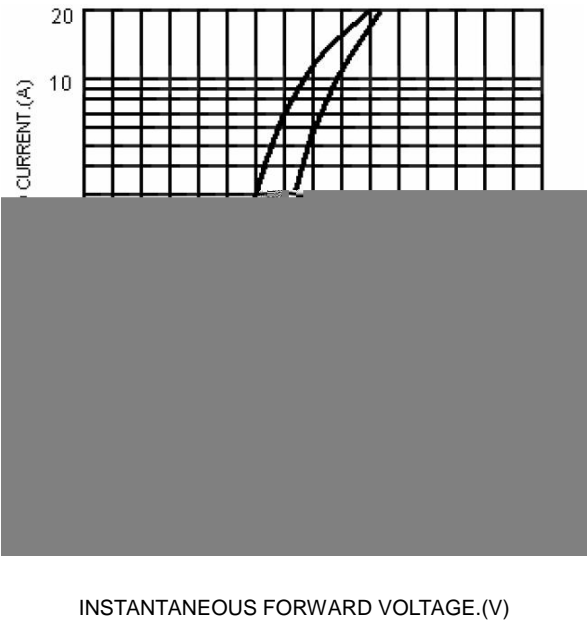
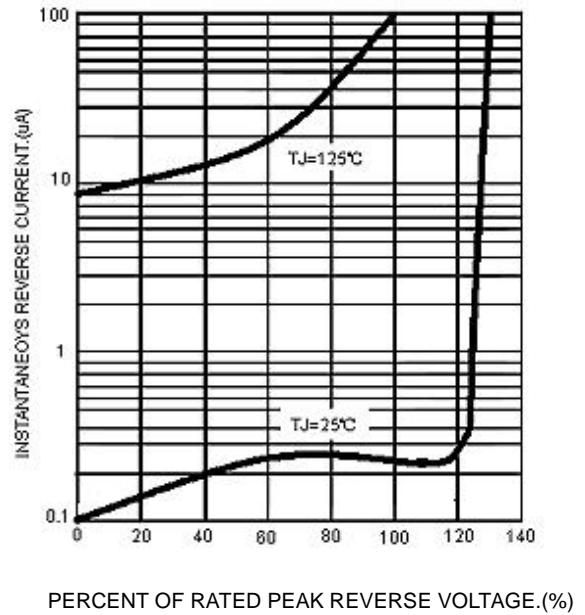


FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.