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℃ / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension

◆UL Recognized File number: E347214

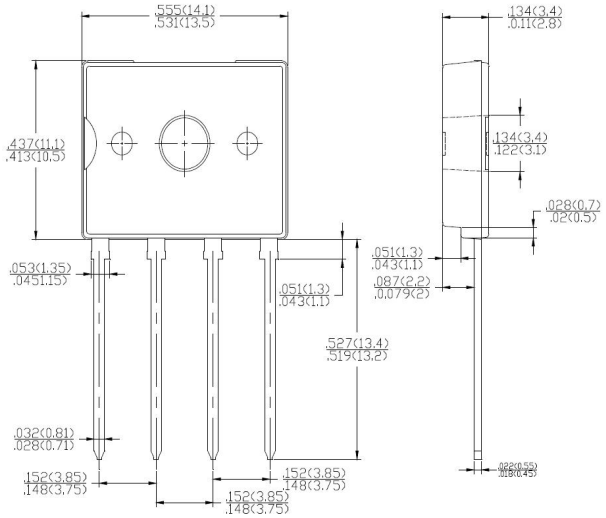
MECHANICAL DATA

◆Case: Molded plastic

◆Lead: solder plated

◆Polarity: As marked

Package: D3K



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ 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_{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 @T_C=138℃	$I_{(AV)}$				4.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}				135				A
Maximum Instantaneous Forward Voltage @ 2.0A	V_F				1.00				V
Maximum DC Reverse Current @ T_A=25℃ rated DC blocking voltage per leg T_A= 125℃	I_R				10 500				μA
Typical Thermal Resistance (Note 1) (Note 2) (Note 3)	$R_{\theta JA}$ $R_{\theta JL}$ $R_{\theta JC}$				55 15 1.5				℃/W
Operating Temperature Range	T_J				-55 to +150				℃
Storage Temperature Range	T_{STG}				-55 to +150				℃

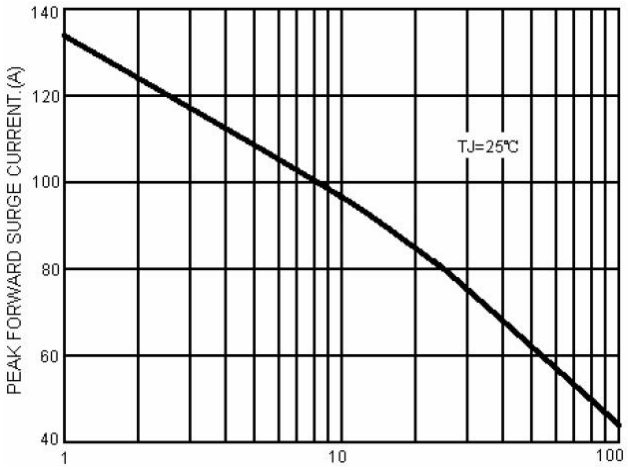
NOTE: 1. Junction to ambient, Without heatsink. 2. Junction to Lead,Without heatsink. 3. Junction to case,With heatsink.

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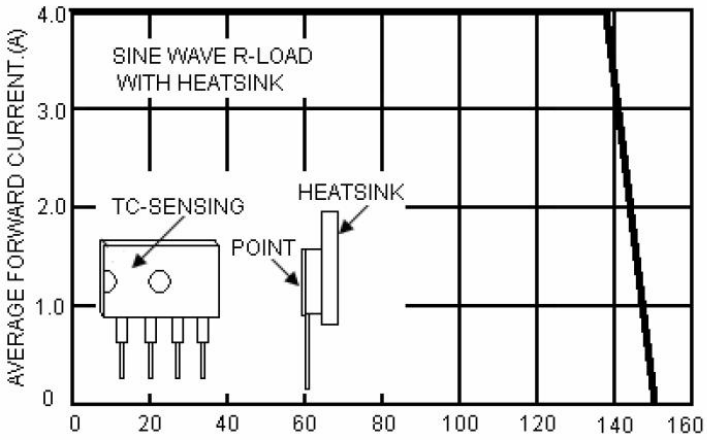
RATING AND CHARACTERISTIC CURVES D4UB05 THRU D4UB100

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELELMENT



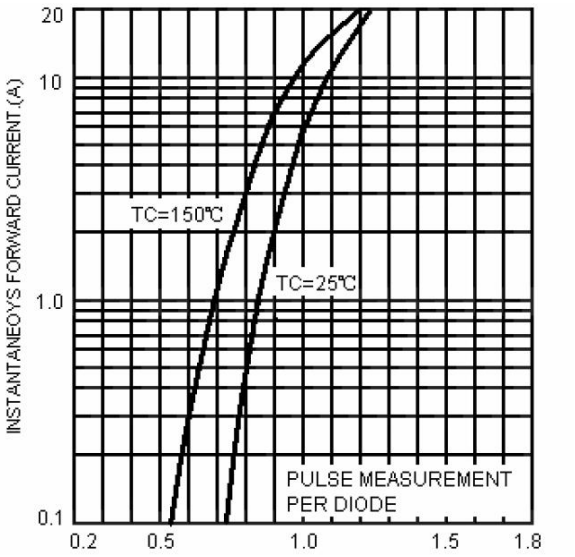
NUMBER OF CYCLES AT 60Hz

FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE



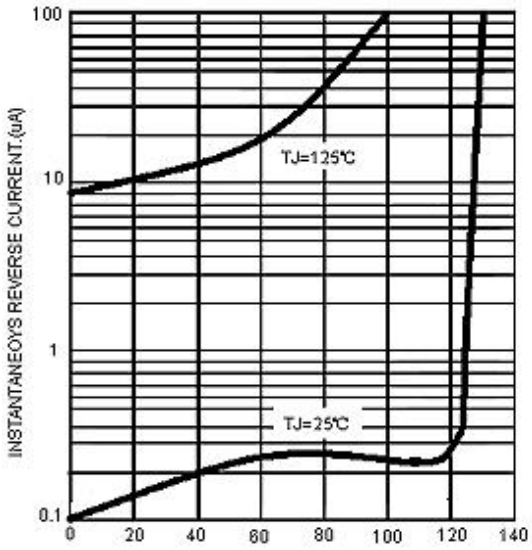
CASE TEMPERATURE.(℃)

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



INSTANTANEOUS FORWARD VOLTAGE.(V)

FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)

Note: Specifications are subject to change without notice.