Kingtronics®

D3UB05 THRU D3UB100

Single Phase 3.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 3.0 Amperes

FEATURES

◆ Ideal for printed circuit boards

◆ Reliable low cost construction technique results in inexpensive product

◆High temperature soldering guaranteed: 260°C / 10 seconds

◆UL Recognized File number: E347214

MECHANICAL DATA

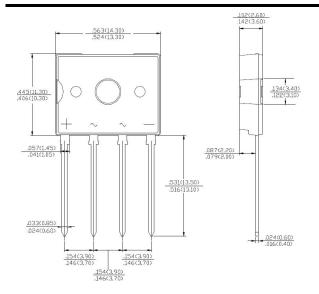
◆Case: Molded plastic

◆Lead: solder plated

◆Polarity: As marked on body ◆Mounting Torque: 0.8N⋅ m

◆Recommended Torque: 0.5N· m

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		D3UB 05	D3UB 10	D3UB 20	D3UB 40	D3UB 60	D3UB 80	D3UB 100	UNITS
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 Tc= 100 °C Rectified Current at TA= 40 °C	I F(AV)				3.0 ⁽¹⁾ 2.0 ⁽²⁾				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM				60				А
Maximum Instantaneous Forward Voltage @ 3A	VF				1.1				V
Rating for fusing (3ms≤t<8.3ms) Tj=25 ℃	l ² t				15				A ² sec
Maximum DC Reverse Current @ T _A =25°C rated DC blocking voltage per leg T _A = 125°C	IR				5.0 500				μΑ
Typical Thermal Resistance (Note)	Røja Røjl				40 15				°C/W
Operating Temperature Range	TJ			-5	5 to +150				${\mathbb C}$
Storage Temperature Range	Тѕтѕ	_		-5	5 to +150	_	_		$^{\circ}$

NOTE: 1. Unit case mounted on 1.6*1.6*0.06" thick (5.1*5.1*0.15cm) Al.Plate

2. Unit mounted on P.C.B. with 0.5*0.5" (12.7*1.27mm) copper pads and 0.375" (9.5mm) lead length

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RATING AND CHARACTERISTIC CURVES D3UB05 THRU D3UB100

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE

CURRENT PER BRIDGE ELELMENT

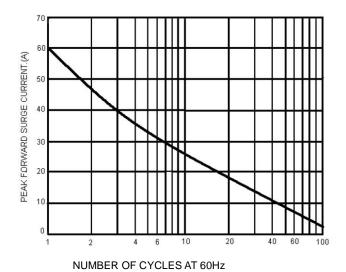


FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE

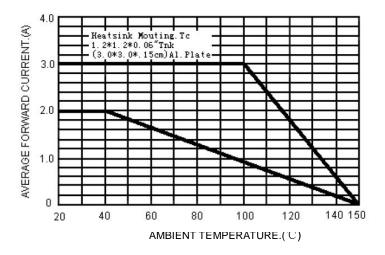
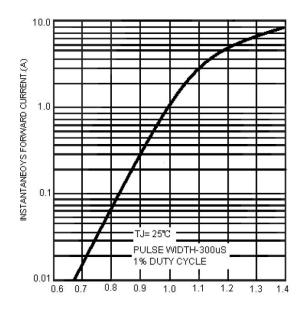


FIG. 3-TYPICAL INSTANTANEOUS FORWARD

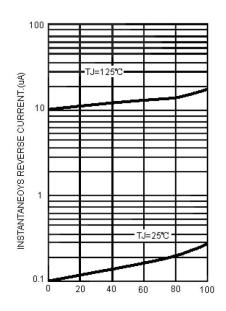
CHARACTERISTICS PER BRIDGE ELEMENT



INSTANTANEOUS FORWARD VOLTAGE.(V)

Note: Specifications are subject to change without notice.

FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)

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