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℃ / 10 seconds

◆UL Recognized File number: E347214

MECHANICAL DATA

◆Case: Molded plastic

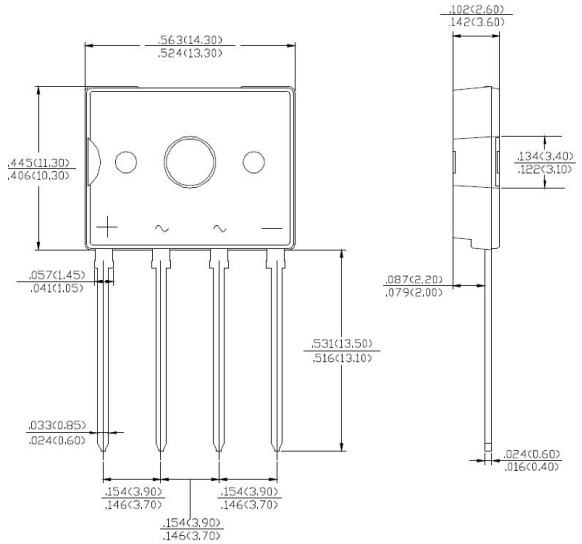
◆Lead: solder plated

◆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℃ 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	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 (T_C= 100℃) Rectified Current at (T_A= 40℃)	$I_{F(AV)}$				3.0(1) 2.0(2)				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}				60				A
Maximum Instantaneous Forward Voltage @ 3A	V_F				1.1				V
Rating for fusing (3ms≤t<8.3ms) Tj=25℃	I^2t				15				A^2sec
Maximum DC Reverse Current @ T_A=25℃ rated DC blocking voltage per leg T_A = 125℃	I_R				5.0 500				μA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$				40 15				℃/W
Operating Temperature Range	T_J				-55 to +150				℃
Storage Temperature Range	T_{STG}				-55 to +150				℃

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

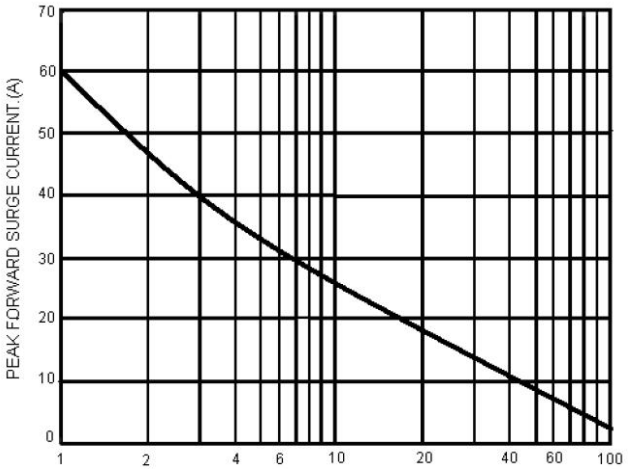


FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE

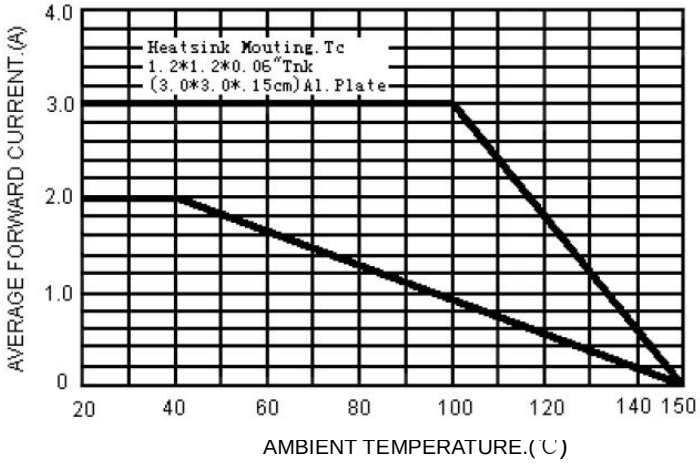


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

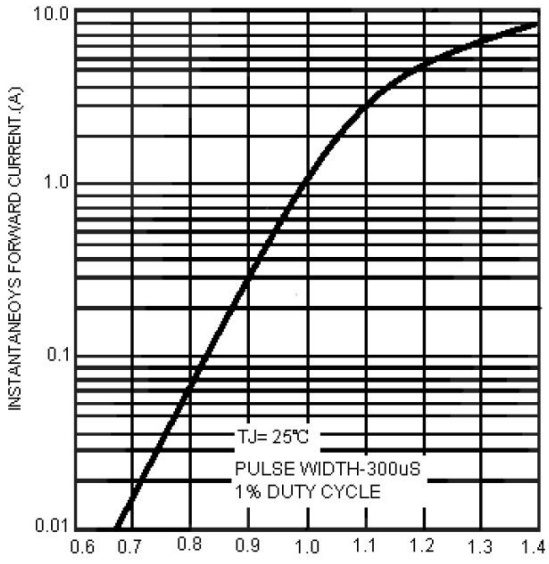
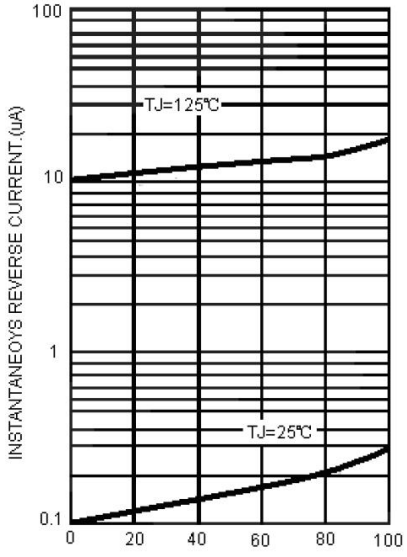


FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.