

D2UB05 THRU D2UB100

Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 2.0 Amperes

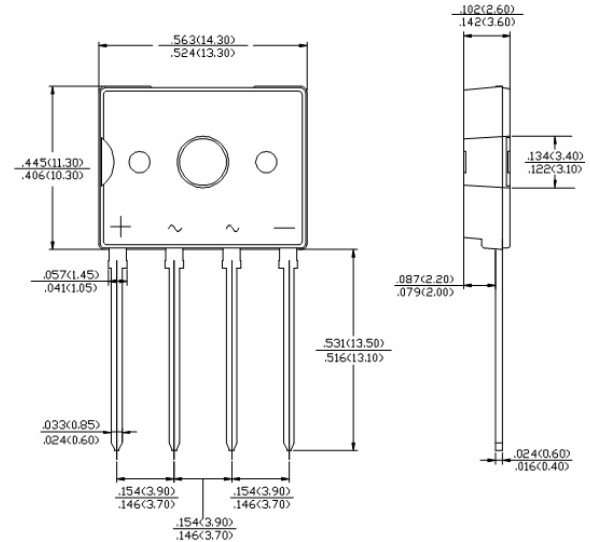
Package: D3K

FEATURES

- ◆ Ideal for printed circuit boards
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed: 260°C/10 seconds

MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked on body
- ◆ Mounting Torque: 0.8-N·m
- ◆ Recommended Torque: 0.5-N·m



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		D2UB 05	D2UB 10	D2UB 20	D2UB 40	D2UB 60	D2UB 80	D2UB 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 at T _C = 100°C	I _{F(AV)}	2.0 ⁽¹⁾							A
Rectified Current at T _A = 40°C		1.0 ⁽²⁾							
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	35							A
Maximum Instantaneous Forward Voltage @ 2A	V _F	1.1							V
Rating for fusing (3ms≤t<8.3ms) T _J =25°C	I ² t	3.5							A ² sec
Maximum DC Reverse Current @ T _A =25°C	I _R	5.0							μA
rated DC blocking voltage per leg T _A = 125°C		500							
Typical Thermal Resistance (Note)	R _{θJA}	40							°C/W
	R _{θJC}	3.5							
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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 D2UB05 THRU D2UB100

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT

PER BRIDGE ELEMMENT

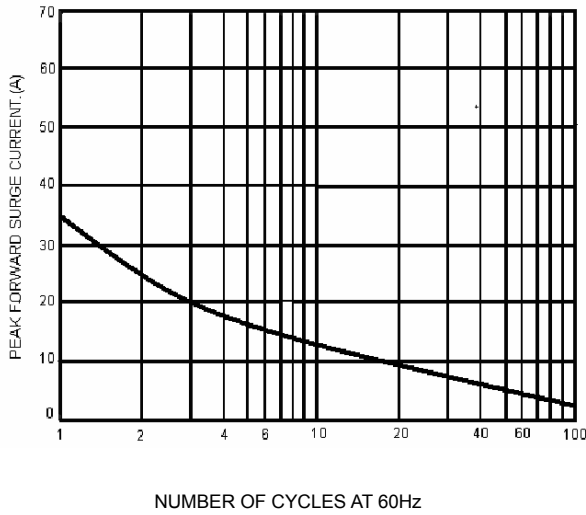


FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE

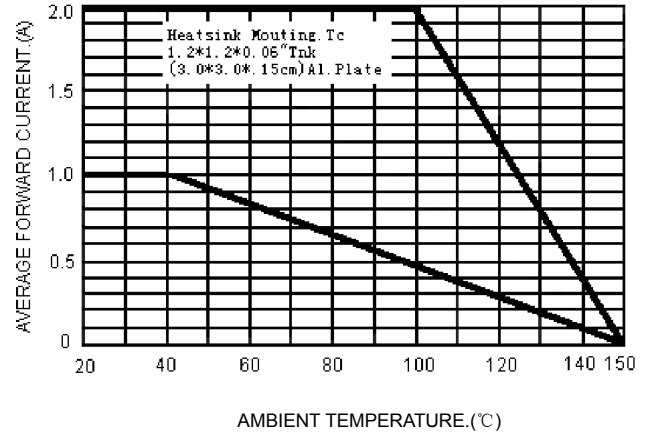


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

PER BRIDGE ELEMENT

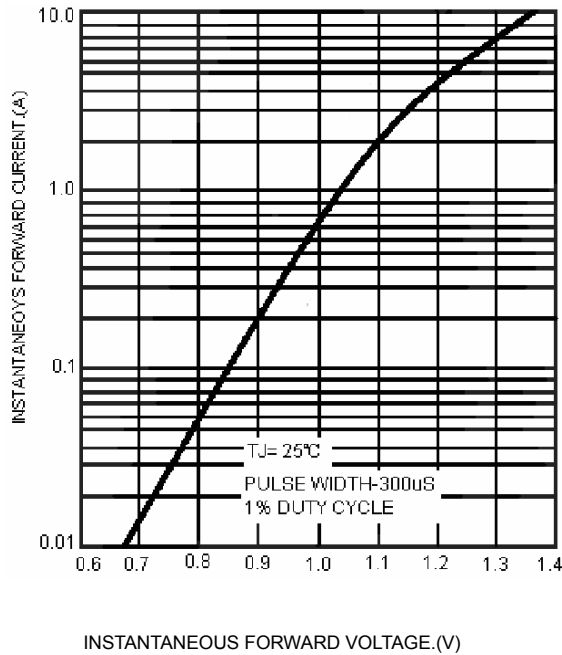
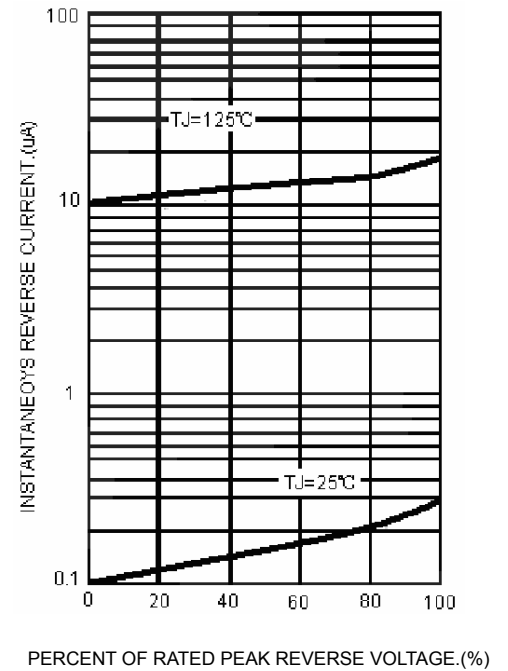


FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE

ELEMENT



Note: Specifications are subject to change without notice.