

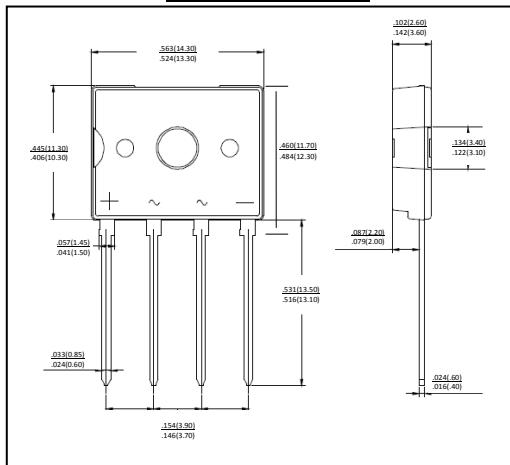


D2UB05 THRU D2UB100

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

PACKAGE : D3K



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
 - Ideal for printed circuit boards
 - Low reverse leakage
 - High forward surge current capability
 - High temperature soldering guaranteed

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Mounting Torque: 0.8 N.M max

Weight: 1.41 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

	SYMBOLS	D2UB05	D2UB10	D2UB20	D2UB40	D2UB60	D2UB80	D2UB100	UNITS						
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS						
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS						
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS						
Maximum Average Forward Rectified Current at	T _C = 100°C T _A = 40°C	I _(AV)	2.0 (NOTE1)						Amps						
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	1.0 (NOTE2)							Amps						
Rating for Fusing(t<8.3ms)	I ² t	35.0							A ² s						
Maximum instantaneous forward voltage drop per bridge element at 1.0A	V _F	1.1							Volts						
Maximum DC reverse current at rated DC blocking voltage	T _A =25 C T _A =100 C	I _R	5						μA						
Typical Thermal Resistance (Note 2)	R _{JA}	40							C/W						
Operating junction temperature range	T _J	-55 to +150							C						
storage temperature range	T _{STG}	-55 to +150							C						

NOTES:

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" x 0.5" (12.7 x 1.27mm) copper pads and 0.375" (9.5mm) lead length

RATINGS AND CHARACTERISTIC CURVES D2UB05 THRU D2UB100

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

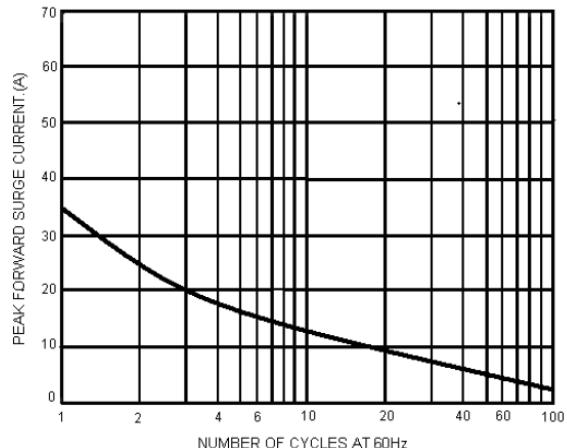


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

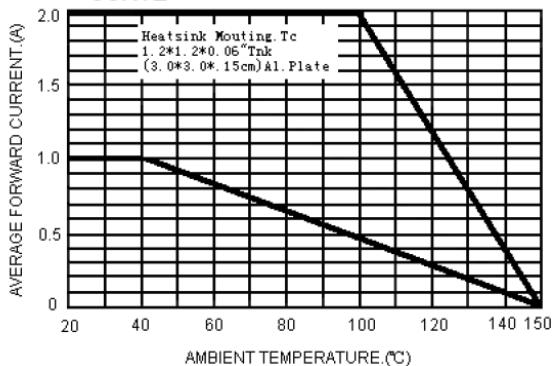


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

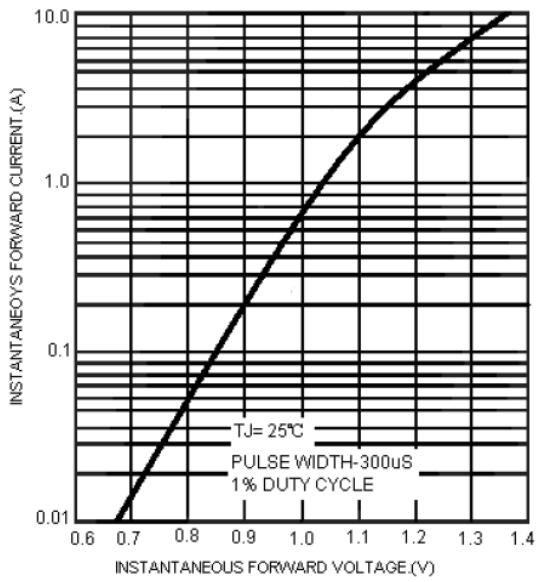


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

