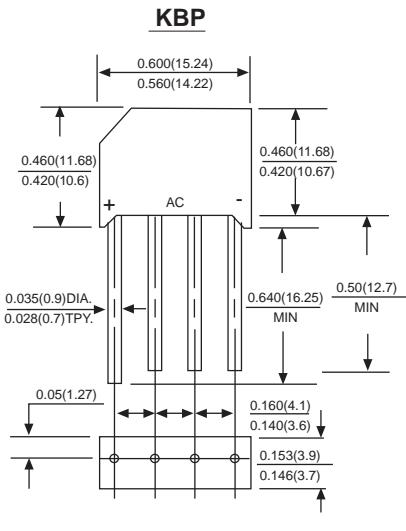




KBP3005 THRU KBP310

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes



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: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body

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

Polarity: Polarity symbols marked on case

Mounting Position: Any

Weight: 0.069 ounce, 1.95 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 capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	KBP 3005	KBP 301	KBP 302	KBP 304	KBP 307	KBP 308	KBP 310	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 output rectified current at T _c =50°C	I _(AV)								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}								Amps
Maximum instantaneous forward voltage drop per bridge element at 1.5A	V _F								Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R								µA
Typical Thermal Resistance (Note 1)	R _{θJA}								mA
Operating junction temperature range	T _J								°C
storage temperature range	T _{STG}								°C

NOTES: 1. Unit mounted on 0.47 x 0.47 (12x12mm) copper pads.



RATINGS AND CHARACTERISTIC CURVES KBP3005 THRU KBP310

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

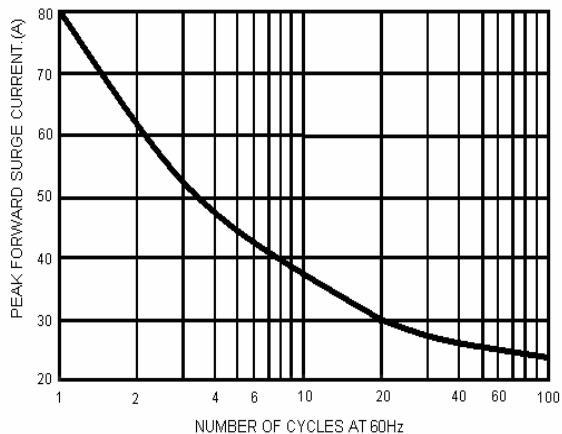


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

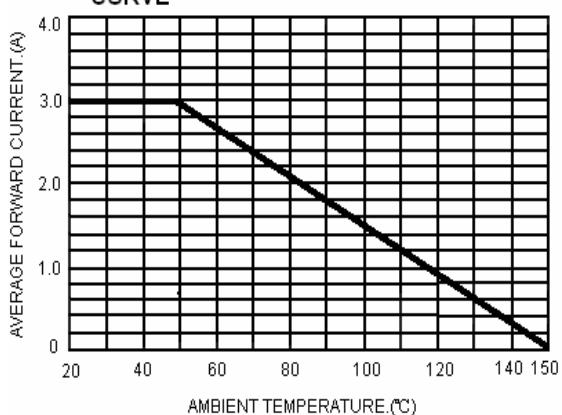


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

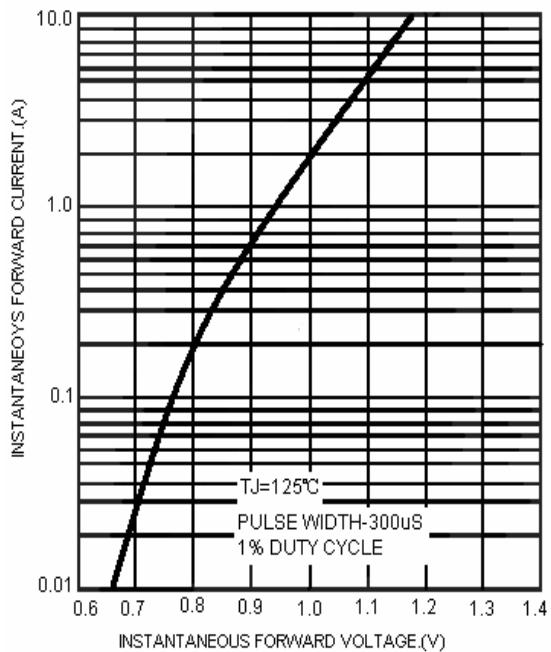
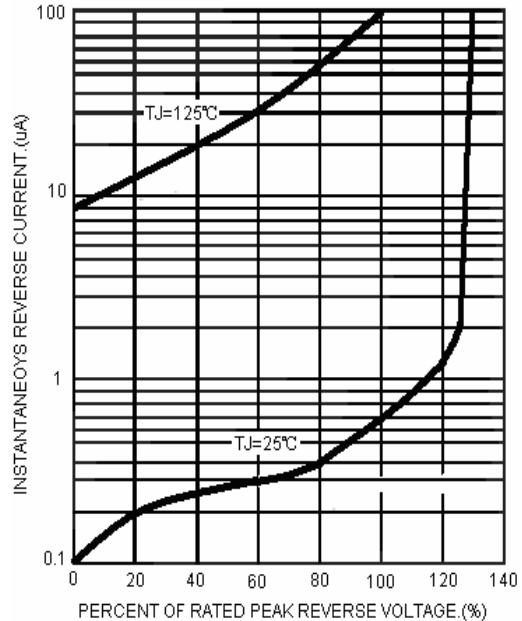


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

