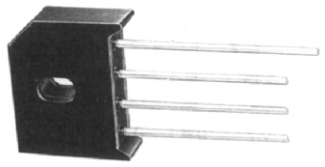
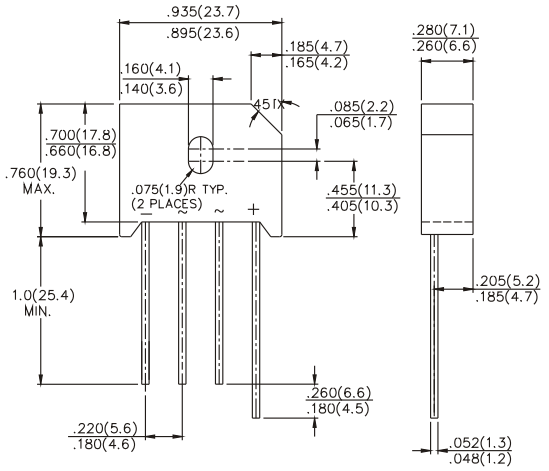
KBU401 thru KBU407

SINGLE-PHASE SILICON BRIDGE

CHENG-YI
ELECTRONIC



VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
4.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- High Surge current capability
- Ideal for printed circuit board
- Realiable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 250°C/10 seconds/.375", (9.5mm)lead lengths at 5 lbs., (2.3kg) tension
- Weight:1.07grams

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, derate current by 20%.

		KBU401	KBU402	KBU403	KBU404	KBU405	KBU406	KBU407	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Output Current @ T_A=65°C	$V_{(AV)}$	4.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	200							A
Maximum DC Forward Voltage drop per element @ 2A	V_F	1.1							V
Maximum Reverse Current at rated @ T_A=25°C	I_R	10							μA
DC Blocking Voltage Per Element @ T_A=100°C		500							mA
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Notes:Special Silicon Bridge Rectifier are also Available.

KBU401 thru KBU407

SINGLE-PHASE 4.0 AMPS SILICON BRIDGE RECTIFIERS

CHENG-YI ELECTRONIC

RATING AND CHARACTERISTICS CURVES
KBU401 THRU KBU407

Fig.2 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

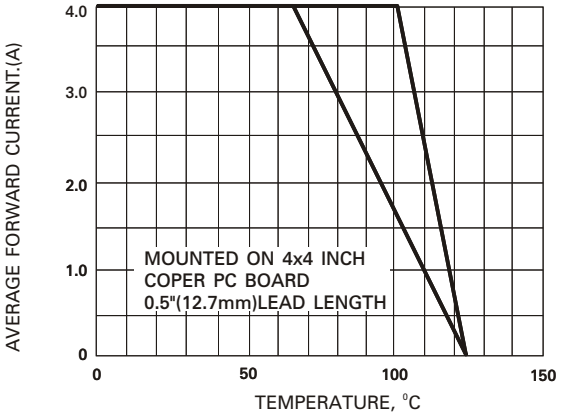


Fig.3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

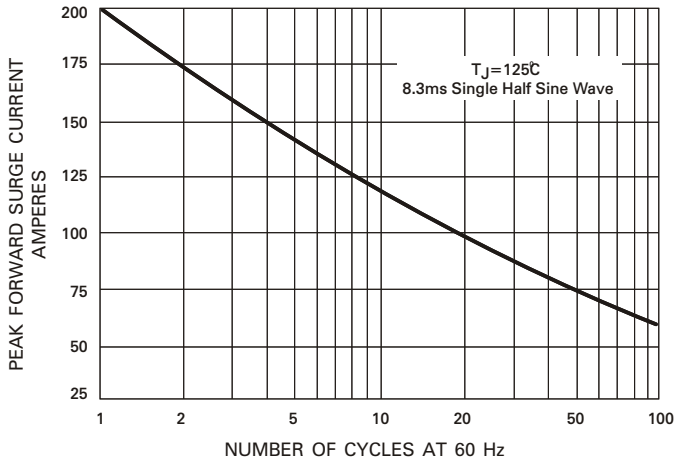


Fig.2 - TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

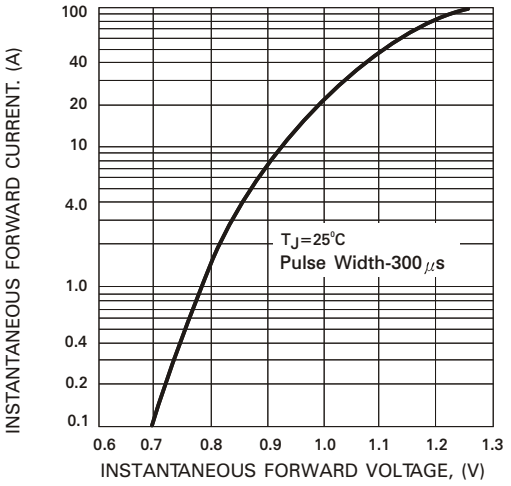


Fig.4 - TYPICAL REVERSE
CHARACTERISTICS

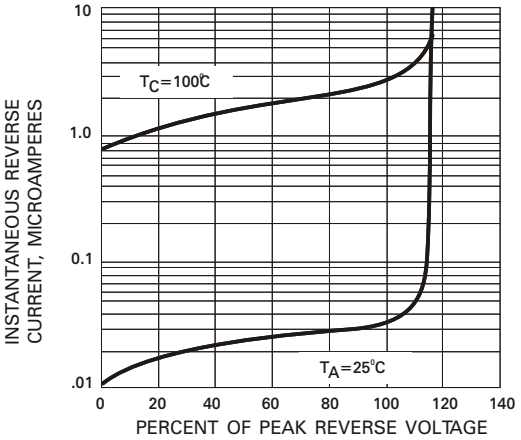


Fig.5 - TYPICAL JUNCTION CAPACITANCE
PER ELEMENT