



**CHENMKO ENTERPRISE CO., LTD**

**SINGLE-PHASE GLASS PASSIVATED**

**SILICON BRIDGE RECTIFIER**

**VOLTAGE RANGE 50 - 1000 Volts CURRENT 8.0 Amperes**

*Lead free devices*

**KBU8APT  
THRU  
KBU8MPT**

**FEATURES**

- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating - 250 Amperes peak
- \* Silver-plated copper leads

**MECHANICAL DATA**

**Case:** JEDEC KBU-6 molded plastic

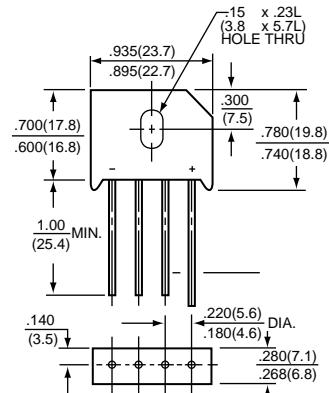
**Terminals:** Plated leads solderable per MIL-STD-750,  
Method 2026

**Mounting position:** Any

**Polarity:** Polarity symbols marked on body



**KBU-6**



Dimensions in inches and (millimeters)

**KBU-6**

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings 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%.

(At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	KBU8APT	KBU8BPT	KBU8DPT	KBU8GPT	KBU8JPT	KBU8KPT	KBU8MPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>D</sub> C	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> = 75°C	I <sub>O</sub>								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>								Amps
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>					-55 to +150			°C

**ELECTRICAL CHARACTERISTICS** ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	KBU8APT	KBU8BPT	KBU8DPT	KBU8GPT	KBU8JPT	KBU8KPT	KBU8MPT	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC	V <sub>F</sub>					1.1			Volts
Maximum Reverse Current at rated DC blocking Voltage per element	I <sub>R</sub>					10			uAmps
						0.2			mAmps

## RATING CHARACTERISTIC CURVES ( KBU8APT THRU KBU8MPT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

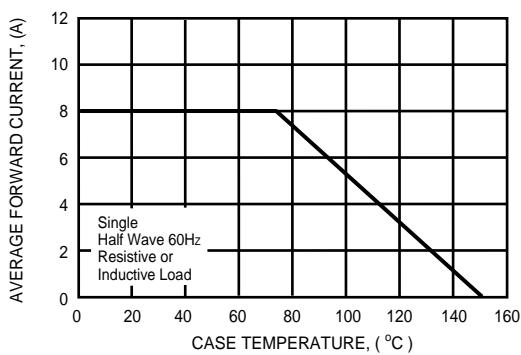


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

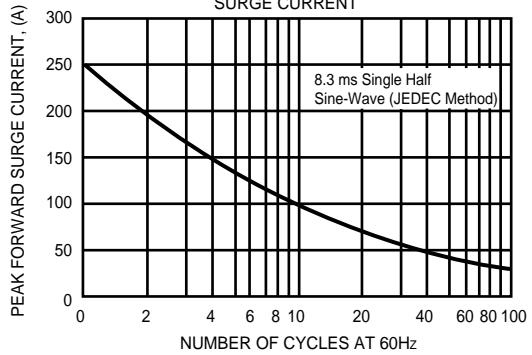


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

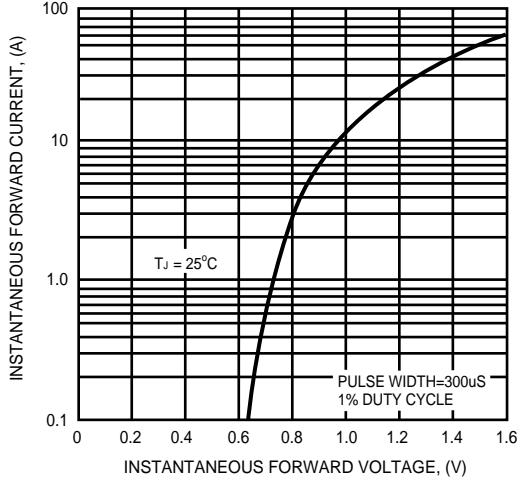


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

