



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 6.0 Amperes

**KBU6APT**

**THRU**

**KBU6MPT**

### FEATURES

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

### MECHANICAL DATA

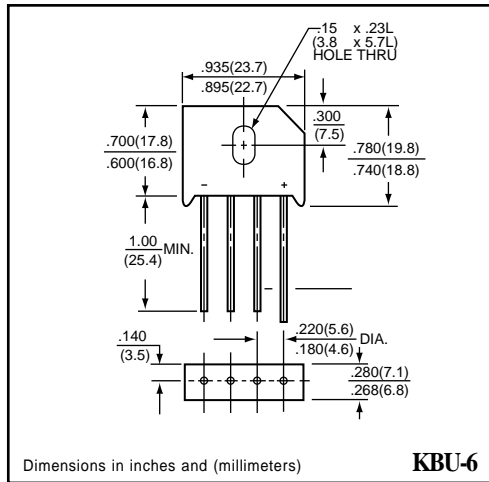
**Case:** JEDEC KBU-6 molded plastic  
**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026  
**Mounting position:** Any  
**Polarity:** Polarity symbols marked on body

### 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%.



**KBU-6**



**KBU-6**

### MAXIMUM RATINGS ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	KBU6APT	KBU6PT	KBU6BPT	KBU6GPT	KBU6JPT	KBU6KPT	KBU6MPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at Tc = 75°C	Io	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	250							Amps
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

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

CHARACTERISTICS	SYMBOL	KBU6APT	KBU6PT	KBU6BPT	KBU6GPT	KBU6JPT	KBU6KPT	KBU6MPT	UNITS
Maximum Instantaneous Forward Voltage at 6.0 A DC	VF	1.0							Volts
Maximum Reverse Current at rated	IR	10							uAmps
DC blocking Voltage per element									0.2

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

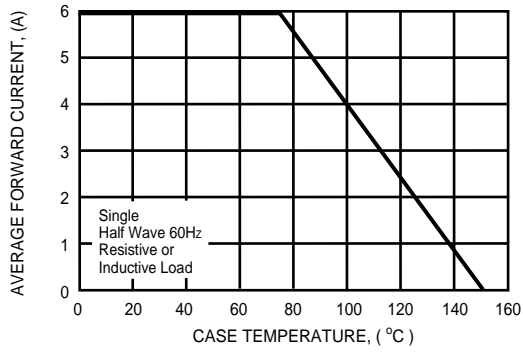


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

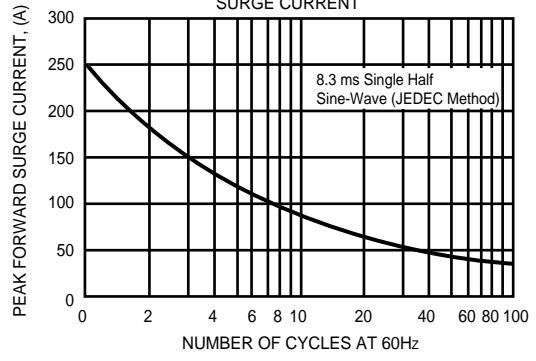


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

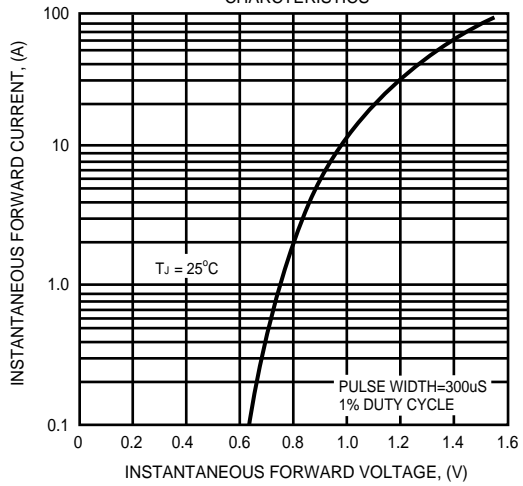


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

