



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

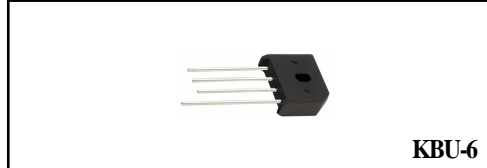
- * Low leakage
- * Low forward voltage
- * Surge overload rating - 250 Amperes peak
- * Silver-plated copper leads

MECHANICAL DATA

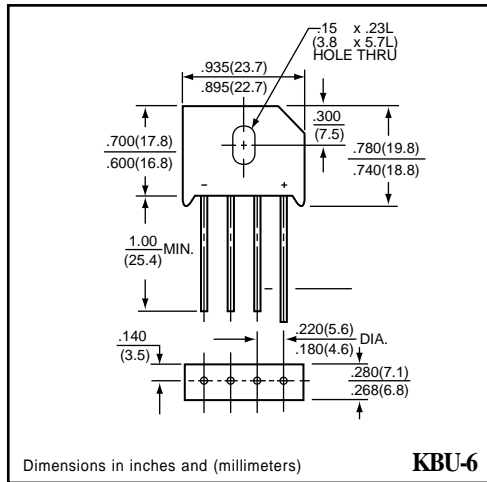
Case: JEDEC KBU-6 molded plastic
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Mounting position: Any
Polarity: Polarity symbols marked on body

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

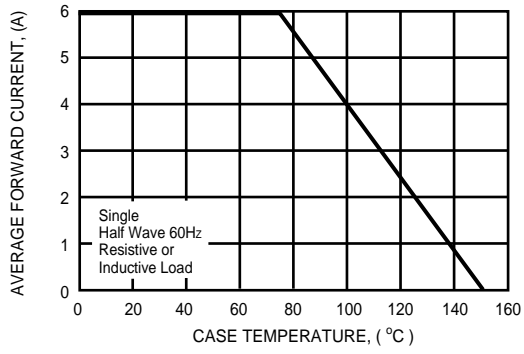


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

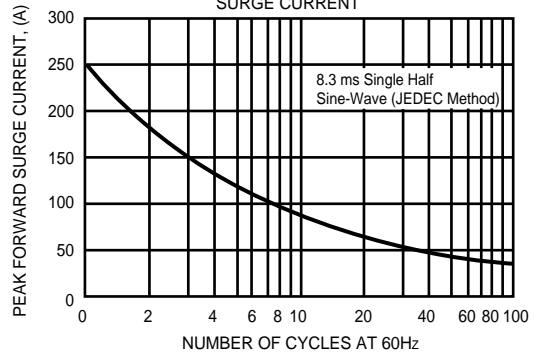


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

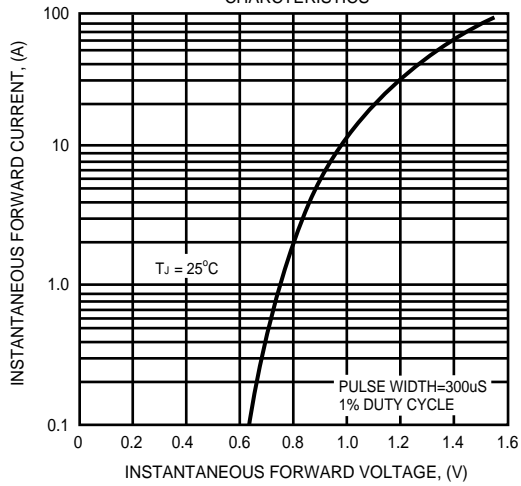


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

