

Distributed by:



www.Jameco.com ♦ 1-800-831-4242

The content and copyrights of the attached material are the property of its owner.



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBP / RS
005 / 201
THRU
KBP / RS
10 / 207

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 2.0 Amperes

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 50 Amperes peak

MECHANICAL DATA

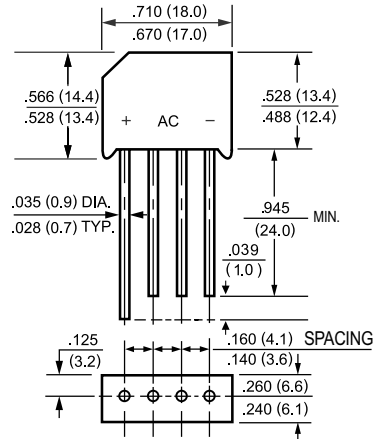
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 2.74 grams

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%.



RS-2



| | | KBP005 | KBP01 | KBP02 | (KBP04) | KBP06 | KBP08 | KBP10 | | |
|---|------------------|--------|-------|-------|---------|--------------|-------|-------|-------|--------------------|
| | SYMBOL | RS201 | RS202 | RS203 | RS204 | RS205 | RS206 | RS207 | UNITS | |
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts | |
| Maximum RMS Bridge Input 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 Output Current TA = 50°C | Io | | | | | 2.0 | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | | | | | 50 | | | | Amps |
| Maximum Forward Voltage Drop per element at 1.0A DC | VF | | | | | 1.0 | | | | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage per element | @TA = 25°C | | | | | 10 | | | | uAmps |
| | @TA = 100°C | | | | | 500 | | | | |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | | | | | 10 | | | | A ² Sec |
| Typical Junction Capacitance (Note1) | Cj | | | | | 15 | | | | pF |
| Operating Temperature Range | Tj | | | | | -55 to + 125 | | | | °C |
| Storage Temperature Range | Tstg | | | | | -55 to + 150 | | | | °C |

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12x12mm) copper pads.

