



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

## WBFBP-06C Plastic-Encapsulate Diode

### FBAS70DW-05

SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

#### DESCRIPTION

Silicon epitaxial planar

PN Junction Guard Ring for Schottky Diode

#### FEATURES

- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package

#### APPLICATION

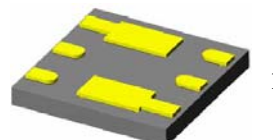
For General Purpose Switching Applications, rectifiers

For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM, Note book PC, etc.)

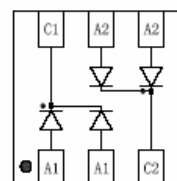
#### WBFBP-06C

(2×2×0.5)

unit: mm



1



FBAS70DW-05

Marking:K71

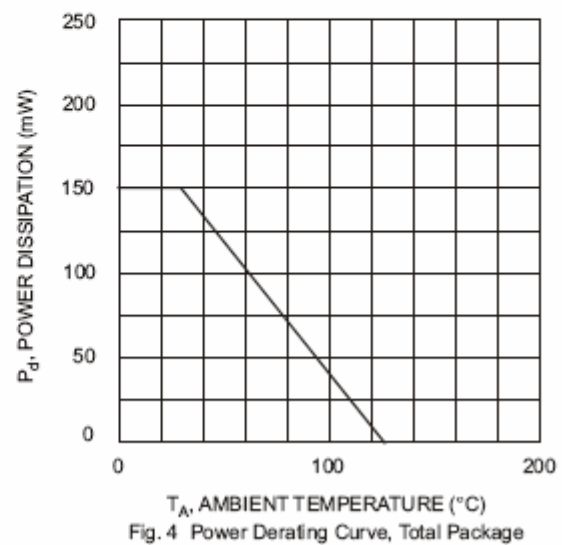
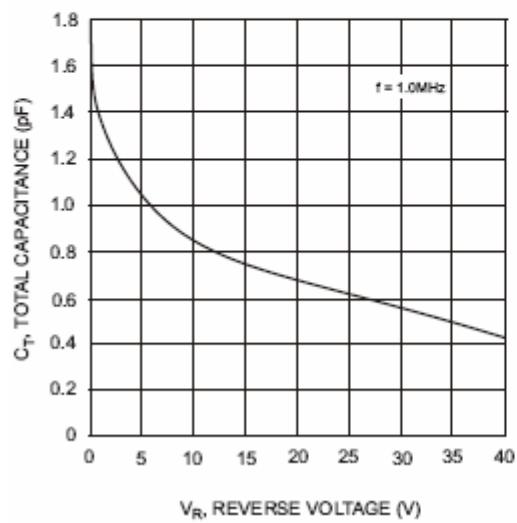
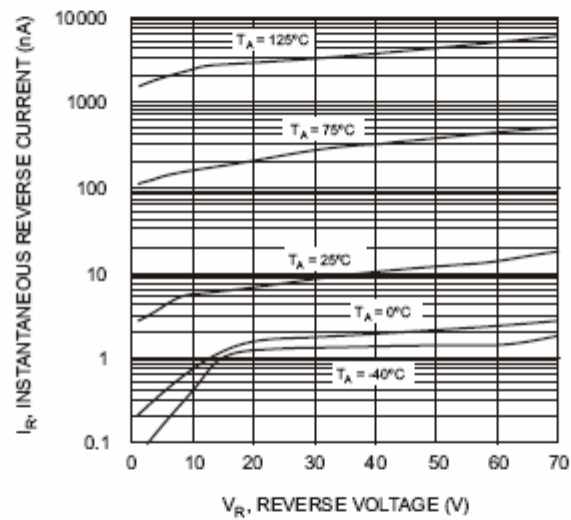
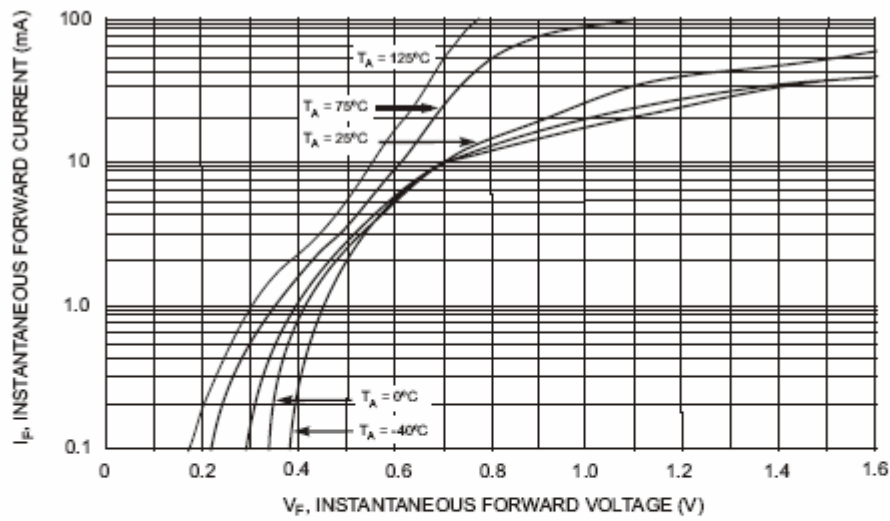
#### Maximum Ratings @T<sub>A</sub>=25

| Parameter                                                                                   | Symbol                                                 | Limits      | Unit |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------|------|
| Peak Repetitive Peak reverse voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | V <sub>RRM</sub><br>V <sub>RWM</sub><br>V <sub>R</sub> | 70          | V    |
| Forward Continuous Current                                                                  | I <sub>F</sub>                                         | 70          | mA   |
| Peak forward surge current @<1.0s                                                           | I <sub>FSM</sub>                                       | 100         | mA   |
| Power Dissipation                                                                           | P <sub>d</sub>                                         | 150         | mW   |
| Thermal Resistance Junction to Ambient                                                      | R <sub>θJA</sub>                                       | 625         | °C/W |
| Junction temperature                                                                        | T <sub>J</sub>                                         | 125         | °C   |
| Storage temperature range                                                                   | T <sub>STG</sub>                                       | -55 to +125 | °C   |

#### Electrical Ratings @T<sub>A</sub>=25°C

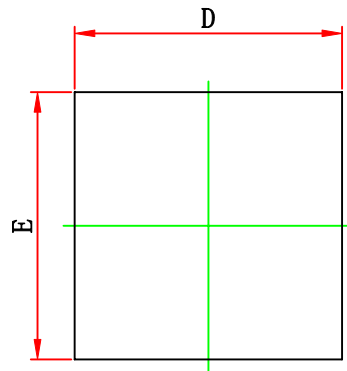
| Parameter                     | Symbol          | Min. | Typ. | Max. | Unit | Conditions                                                                                          |
|-------------------------------|-----------------|------|------|------|------|-----------------------------------------------------------------------------------------------------|
| Forward voltage               | V <sub>F1</sub> |      |      | 0.41 | V    | I <sub>F</sub> =1mA                                                                                 |
|                               | V <sub>F2</sub> |      |      | 1    | V    | I <sub>F</sub> =15mA                                                                                |
| Reverse current               | I <sub>R</sub>  |      |      | 100  | nA   | V <sub>R</sub> =50V                                                                                 |
| Capacitance between terminals | C <sub>T</sub>  |      |      | 2    | pF   | V <sub>R</sub> =0V,f=1MHz                                                                           |
| Reverse Recovery Time         | t <sub>rr</sub> |      |      | 5    | ns   | I <sub>F</sub> =I <sub>R</sub> =10mA<br>I <sub>rr</sub> =0.1X I <sub>R</sub> , R <sub>L</sub> =100Ω |

## Typical Characteristics

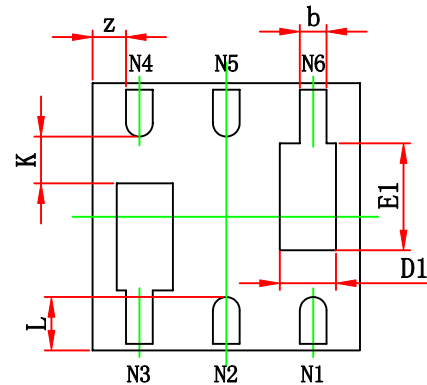




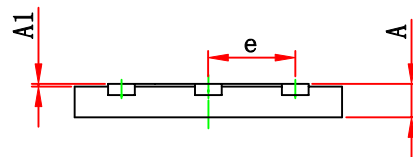
## WBFBP-06C(2×2×0.5) PACKAGE OUTLINE DIMENSIONS



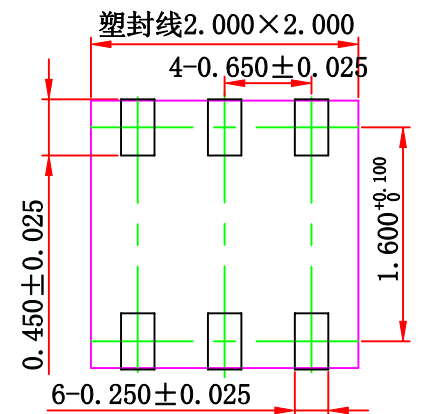
TOP VIEW



BOTTOM VIEW



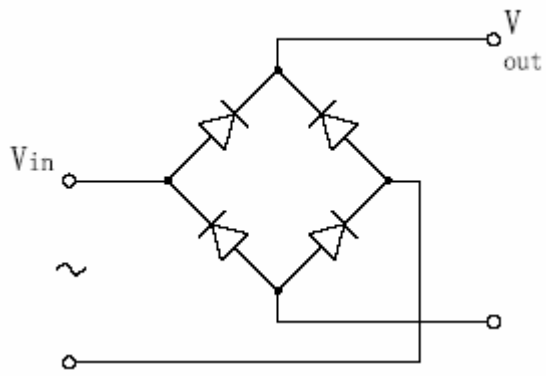
SIDE VIEW



LAND PATTERN RECOMMENDATION  
推荐焊盘图

| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min.                      | Max.  | Min.                 | Max.  |
| A      | 0.450                     | 0.550 | 0.018                | 0.022 |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |
| b      | 0.150                     | 0.250 | 0.006                | 0.010 |
| D      | 1.900                     | 2.100 | 0.075                | 0.083 |
| E      | 1.900                     | 2.100 | 0.075                | 0.083 |
| D1     | 0.420 REF.                |       | 0.017 REF.           |       |
| E1     | 0.800 REF.                |       | 0.032 REF.           |       |
| e      | 0.650 TYP.                |       | 0.026 TYP.           |       |
| L      | 0.400 REF.                |       | 0.016 REF.           |       |
| k      | 0.350 REF.                |       | 0.014 REF.           |       |
| z      | 0.500 REF.                |       | 0.020 REF.           |       |

## APPLICATION CIRCUITS



Bridge rectifiers

This datasheet has been download from:

[www.cj-elec.com](http://www.cj-elec.com)

Datasheets for electronics components