



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

## WBFBP-06C Plastic-Encapsulate Diode

### FBAS70DW-06

SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

#### DESCRIPTION

Silicon epitaxial planar

PN Junction Guard Ring for Schottky Diode

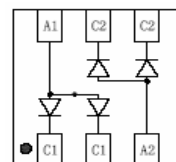
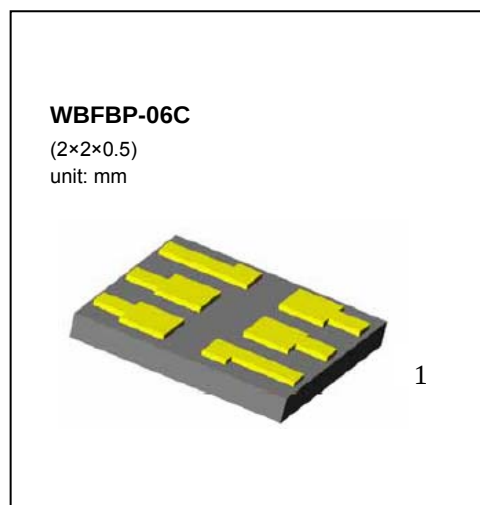
#### FEATURES

- 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.)



FBAS70DW-06  
Marking:K76

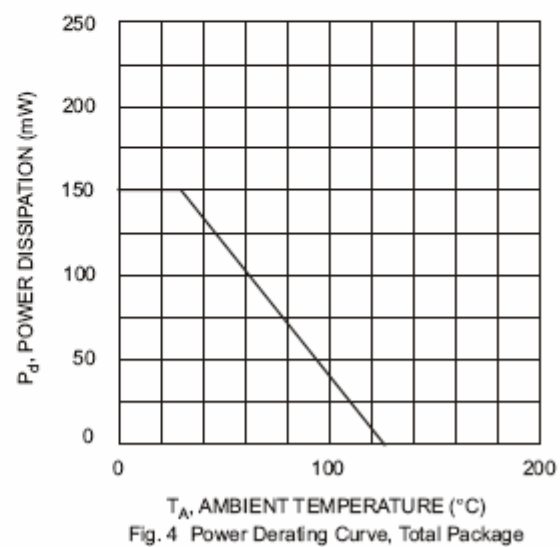
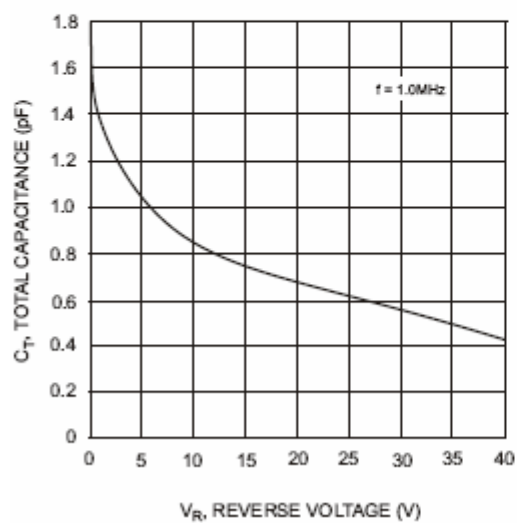
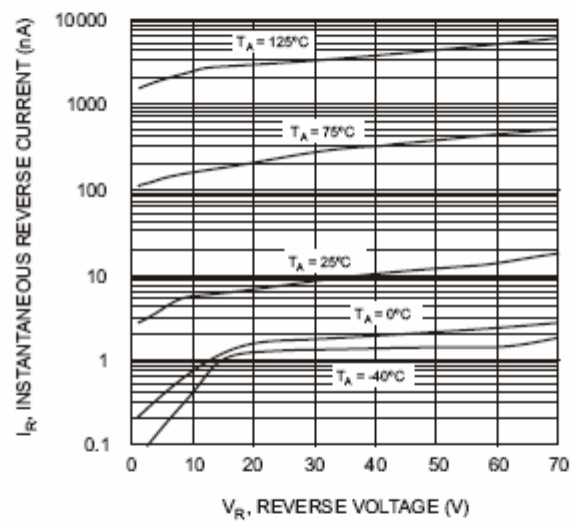
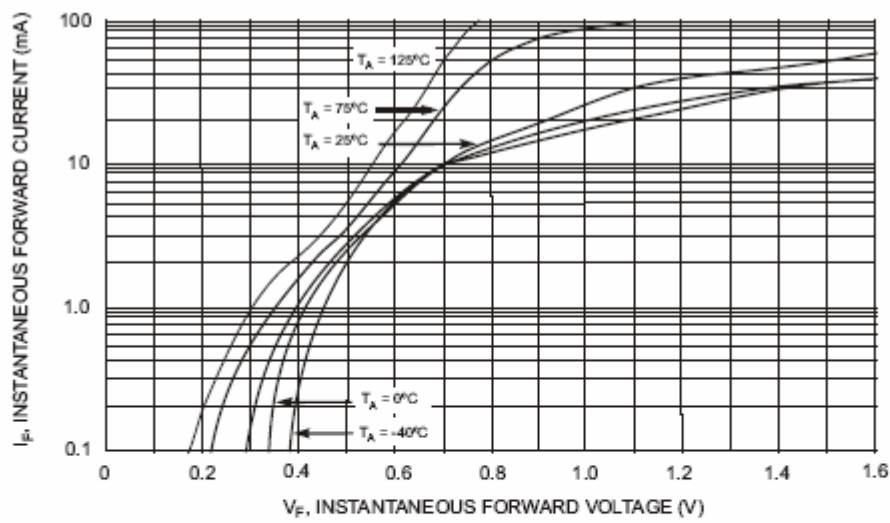
#### Maximum Ratings @ $T_A=25$

| Parameter                                                                                   | Symbol                          | Limits      | Unit                        |
|---------------------------------------------------------------------------------------------|---------------------------------|-------------|-----------------------------|
| Peak Repetitive Peak reverse voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_R$ | 70          | V                           |
| Forward Continuous Current                                                                  | $I_F$                           | 70          | mA                          |
| Peak forward surge current @<1.0s                                                           | $I_{FSM}$                       | 100         | mA                          |
| Power Dissipation                                                                           | $P_d$                           | 150         | mW                          |
| Thermal Resistance Junction to Ambient                                                      | $R_{\theta JA}$                 | 625         | $^{\circ}\text{C}/\text{W}$ |
| Junction temperature                                                                        | $T_J$                           | 125         | $^{\circ}\text{C}$          |
| Storage temperature range                                                                   | $T_{STG}$                       | -55 to +125 | $^{\circ}\text{C}$          |

#### Electrical Ratings @ $T_A=25^{\circ}\text{C}$

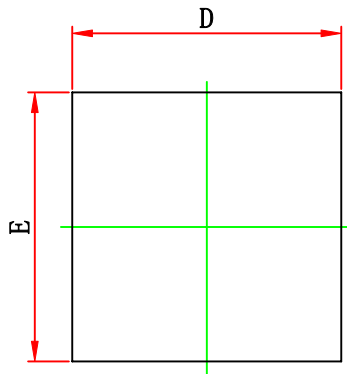
| Parameter                     | Symbol   | Min. | Typ. | Max. | Unit | Conditions                                              |
|-------------------------------|----------|------|------|------|------|---------------------------------------------------------|
| Forward voltage               | $V_{F1}$ |      |      | 0.41 | V    | $I_F=1\text{mA}$                                        |
|                               | $V_{F2}$ |      |      | 1    | V    | $I_F=15\text{mA}$                                       |
| Reverse current               | $I_R$    |      |      | 100  | nA   | $V_R=50\text{V}$                                        |
| Capacitance between terminals | $C_T$    |      |      | 2    | pF   | $V_R=0\text{V}, f=1\text{MHz}$                          |
| Reverse Recovery Time         | $t_{rr}$ |      |      | 5    | ns   | $I_F=I_R=10\text{mA}$<br>$I_{rr}=0.1I_R, R_L=100\Omega$ |

## Typical Characteristics

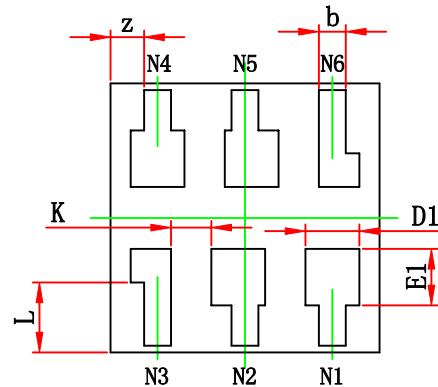




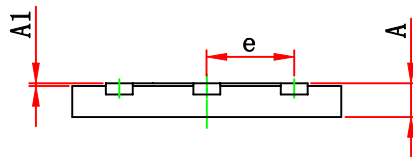
## WBFBP-06C(2×2×0.5) PACKAGE OUTLINE DIMENSIONS



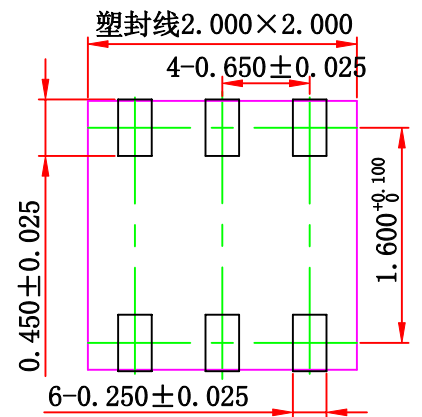
TOP VIEW



BOTTOM VIEW



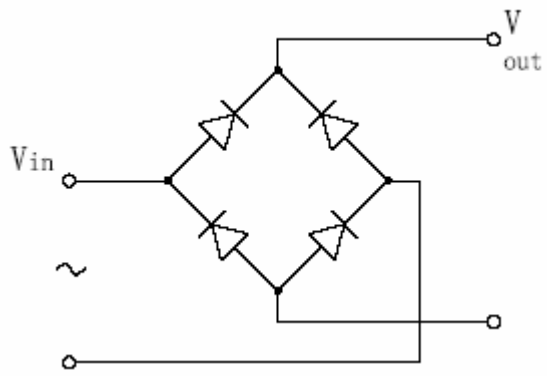
SIDE VIEW



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     | 0.420 REF.                |       | 0.017 REF.           |       |
| e      | 0.650 TYP.                |       | 0.026 TYP.           |       |
| L      | 0.500 REF.                |       | 0.020 REF.           |       |
| k      | 0.300 REF.                |       | 0.012 REF.           |       |
| z      | 0.500 REF.                |       | 0.020 REF.           |       |

## APPLICATION CIRCUITS



Bridge rectifiers