



WBFBP-06C Plastic-Encapsulate Diode

FBAS70TW

SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

DESCRIPTION

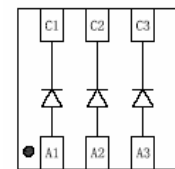
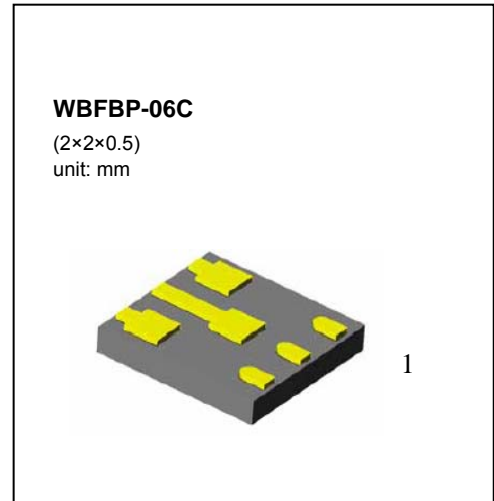
Silicon epitaxial planar
PN Junction Guard Ring for Schottky Diode

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.)



FBAS70TW

Marking:K73

Maximum Ratings @T_A=25

| Parameter | Symbol | Limits | Unit |
|--|------------------|-------------|------|
| Peak Repetitive Peak reverse voltage | V _{RRM} | 70 | V |
| Working Peak Reverse Voltage | V _{RWM} | | |
| DC Blocking Voltage | V _R | | |
| 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 _{θJA} | 625 | °C/W |
| Junction temperature | T _J | 125 | °C |
| Storage temperature range | T _{STG} | -55 to +125 | °C |

Electrical Ratings @T_A=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|-----------------|------|------|------|------|--|
| Forward voltage | V _{F1} | | | 0.41 | V | I _F =1mA |
| | V _{F2} | | | 1 | V | I _F =15mA |
| Reverse current | I _R | | | 100 | nA | V _R =50V |
| Capacitance between terminals | C _T | | | 2 | pF | V _R =0V,f=1MHz |
| Reverse Recovery Time | t _{rr} | | | 5 | ns | I _F =I _R =10mA I _{rr} =0.1X I _R ,R _L =100Ω |

Typical Characteristics

FBAS70TW

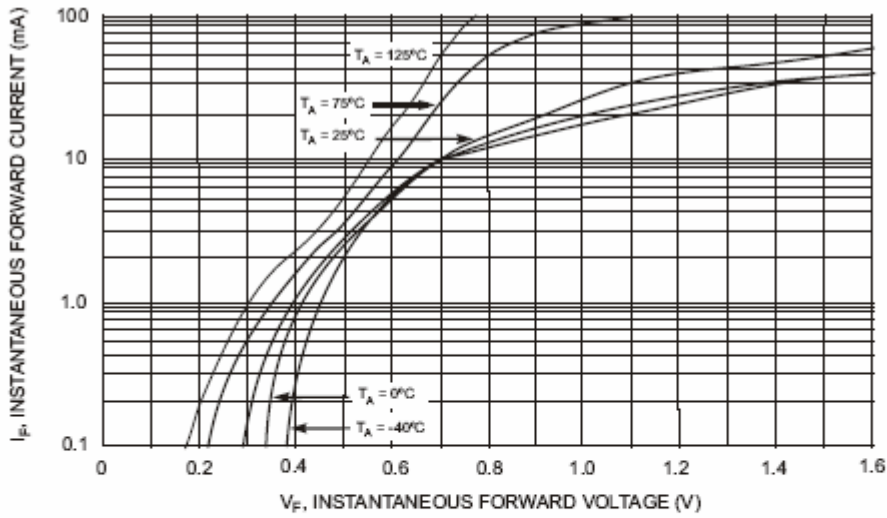


Fig. 1 Typical Forward Characteristics

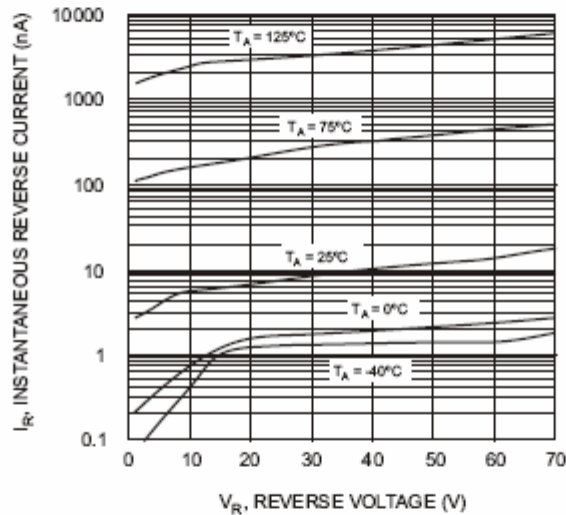


Fig. 2 Typical Reverse Characteristics

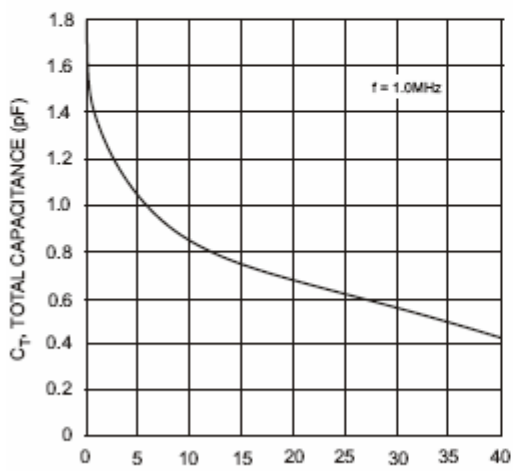


Fig. 3 Typical Capacitance

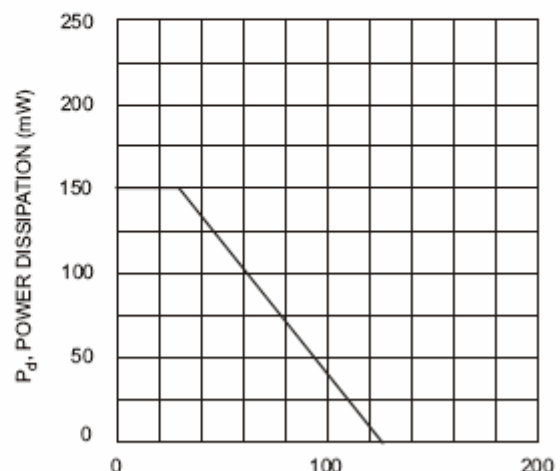
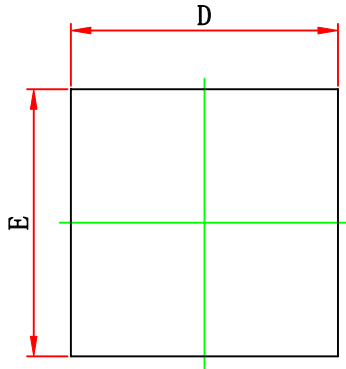


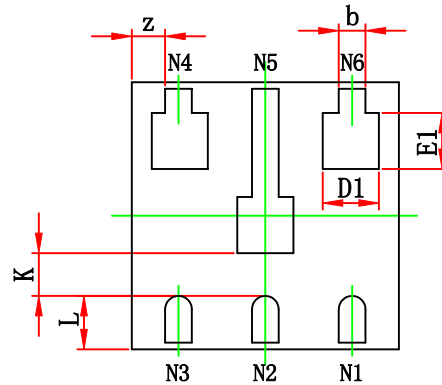
Fig. 4 Power Derating Curve, Total Package



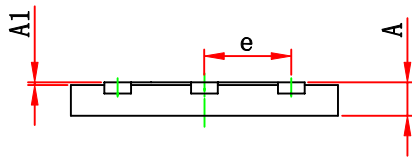
WBFBP-06C(2×2×0.5) PACKAGE OUTLINE DIMENSIONS



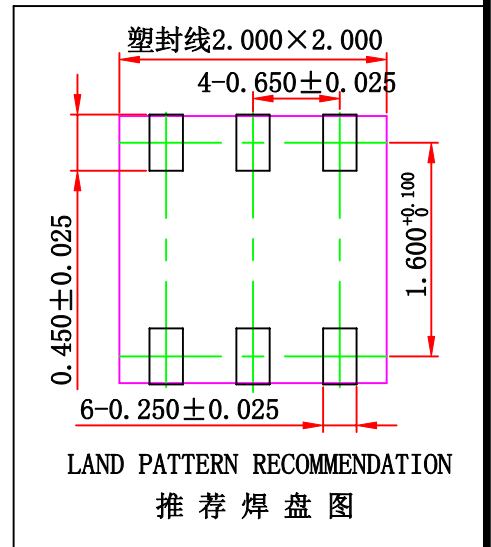
TOP VIEW



BOTTOM VIEW

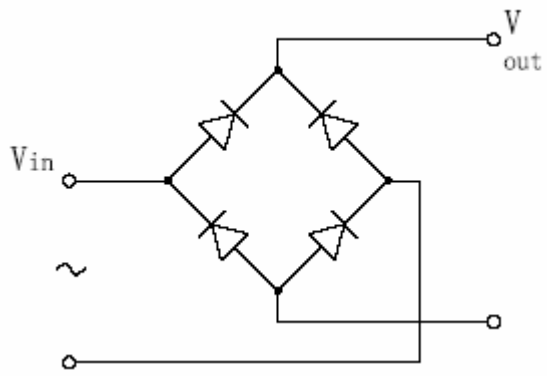


SIDE VIEW



| 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 | 0.400 REF. | | 0.016 REF. | |
| k | 0.300 REF. | | 0.012 REF. | |
| z | 0.500 REF. | | 0.020 REF. | |

APPLICATION CIRCUITS



Bridge rectifiers