



### WBFBP-02C Plastic-Encapsulate Diodes

Schottky barrier Diode

#### DESCRIPTION

Silicon epitaxial planar

#### FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

#### APPLICATION

High speed switching for detection

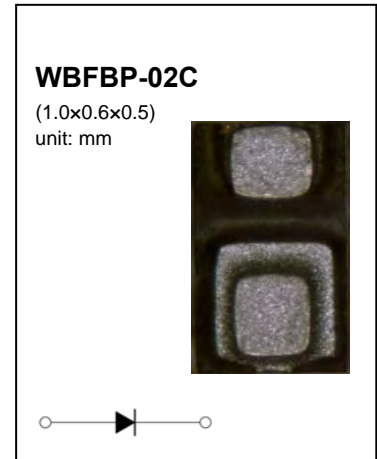
For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM, Note book PC, etc.)

**Pb-Free package is available**

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

#### MARKING: 5



#### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

| Parameter                                   | Symbol          | Limits   | Unit |
|---|-----------------|----------|------|
| Peak reverse voltage                        | $V_{RM}$        | 40       | V    |
| DC reverse voltage                          | $V_R$           | 30       | V    |
| Mean rectifying current                     | $I_O$           | 30       | mA   |
| Peak forward surge current                  | $I_{FSM}$       | 150      | mA   |
| Power dissipation                           | $P_D$           | 100      | mW   |
| Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 1000     | °C/W |
| Junction temperature                        | $T_j$           | 105      | °C   |
| Storage temperature                         | $T_{stg}$       | -55~+150 | °C   |

#### Electrical Ratings @Ta=25°C

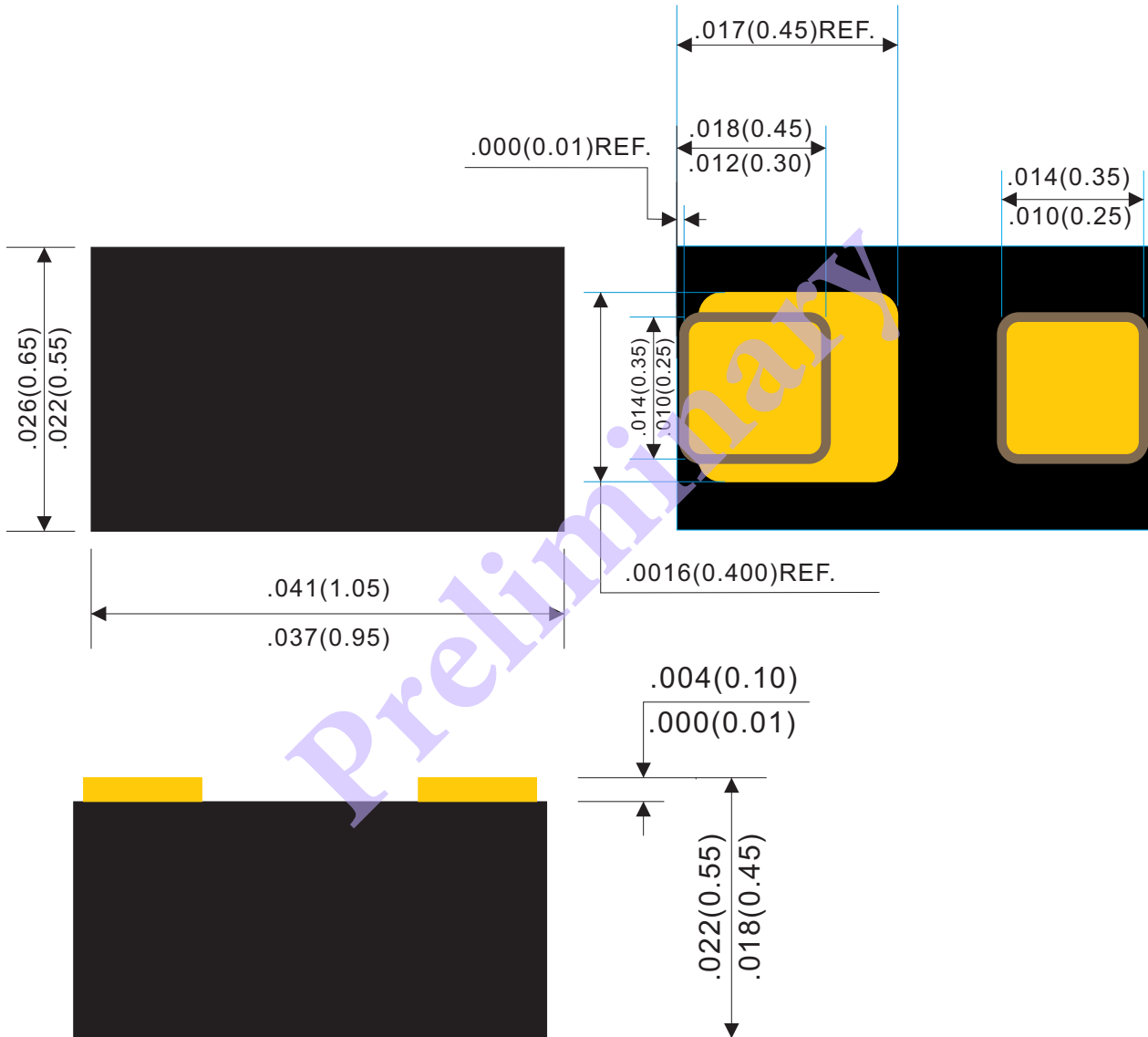
| Parameter                     | Symbol | Min | Typ | Max  | Unit | Conditions       |
|-------------------------------|--------|-----|-----|------|------|------------------|
| Forward voltage               | $V_F$  |     |     | 0.37 | V    | $I_F=1mA$        |
| Reverse current               | $I_R$  |     |     | 0.5  | μA   | $V_R=30V$        |
| Capacitance between terminals | $C_T$  |     | 2   |      | pF   | $V_R=1V, f=1MHz$ |



## WBFBP-02C Plastic-Encapsulate Diodes

### Outline Drawing

### WBFBP-02C



Dimensions in inches and (millimeters)

Rev.B