

## WBFBP-02C-A Plastic-Encapsulate Diodes

HALOGEN  
FREE

### Schottky Rectifier

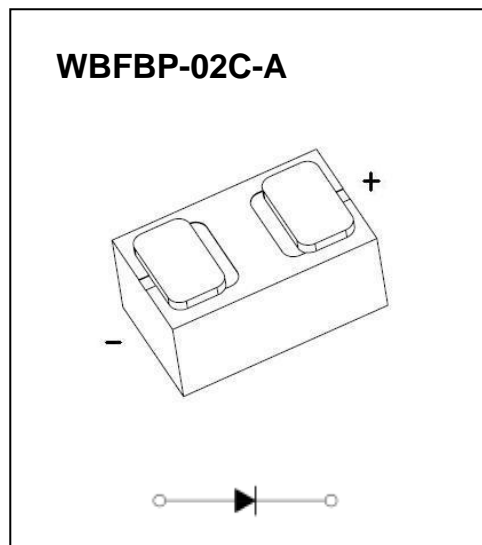
#### FEATURE

- 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.)

#### MARKING



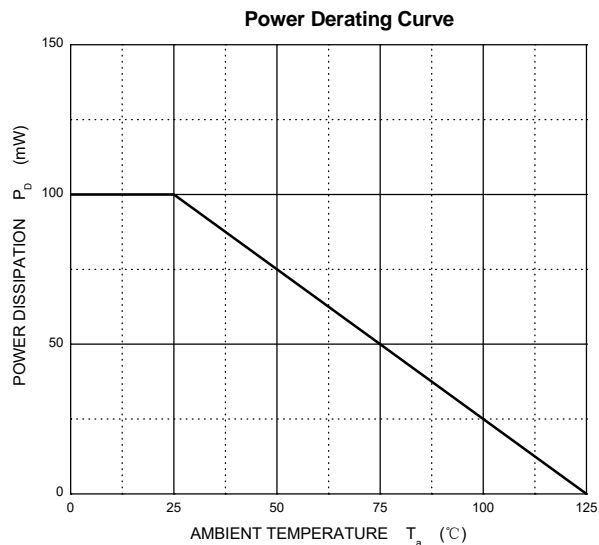
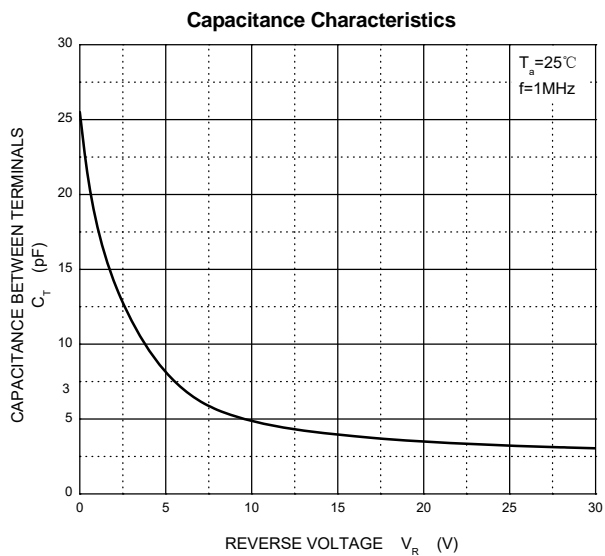
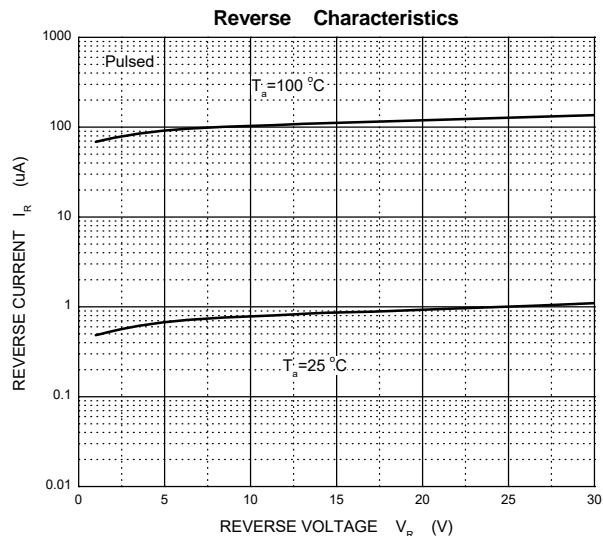
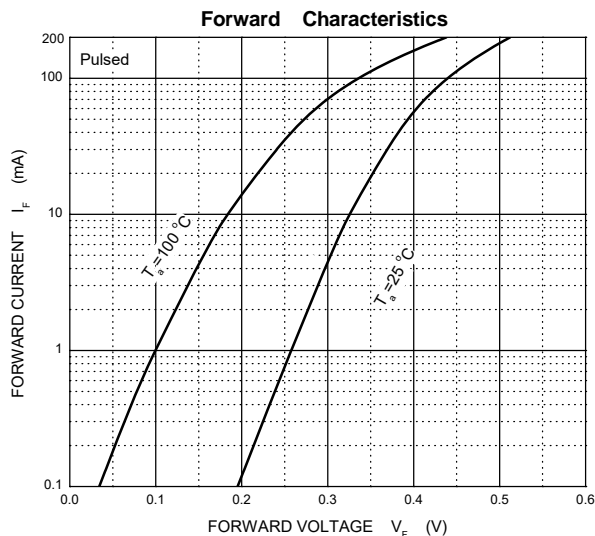
#### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Limit	Unit
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	30	V
V <sub>RWM</sub>	Working Peak Reverse Voltage		
V <sub>R(RMS)</sub>	RMS Reverse Voltage	21	V
I <sub>O</sub>	Average Rectified Output Current	200	mA
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current@ t=8.3ms	0.5	A
P <sub>d</sub>	Power Dissipation	100	mW
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	1000	°C/W
T <sub>J</sub>	Operating Junction Temperature Range	-40 ~ +125	°C
T <sub>stg</sub>	Storage Temperature Range	-55 ~ +150	°C

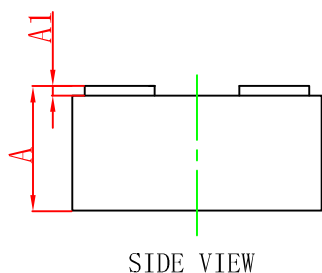
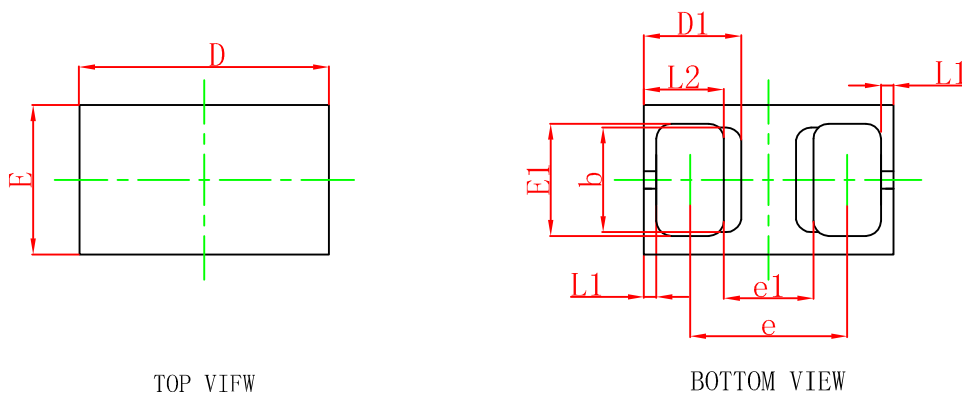
#### ELECTRICAL CHARACTERISTICS (T<sub>a</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	30			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =10V			10	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA			0.35	V
		I <sub>F</sub> =100mA			0.50	V
		I <sub>F</sub> =200mA		0.55	0.60	V

# Typical Characteristics

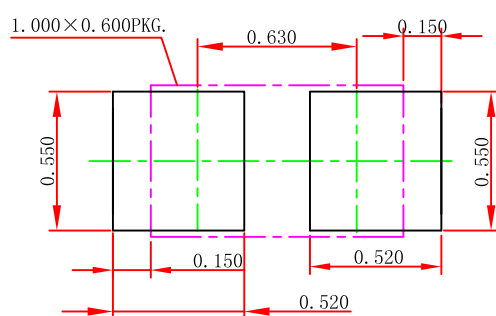


## WBFBP-02C-A Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.090	0.000	0.004
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
D1	0.390REF.		0.015REF.	
E1	0.400	0.500	0.016	0.020
b	0.420REF.		0.017REF.	
e	0.580	0.680	0.023	0.027
e1	0.360REF.		0.014REF.	
L1	0.050REF.		0.002REF.	
L2	0.270	0.370	0.011	0.015

## WBFBP-02C-A Suggested Pad Layout



- Note:**
1. Controlling dimension: in millimeters.
  2. General tolerance:  $\pm 0.050$ mm.
  3. The pad layout is for reference purposes only.