



Plastic-Encapsulate Schottky Barrier Diodes

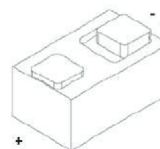
PRIMARY CHARACTERISTICS	
P_D	100mW
V_R	30V
I_O	200mA
$V_F@I_F=10mA$	350mV
$T_{J\ Max}$	125°C

FEATURES

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability
- Moisture Sensitivity Level 1

WBFBP-02C

PACKAGE



APPLICATION

- High Speed Switching for Detection For Portable Equipment:(i.e. Mobile Phone,MP3, MD,CD-ROM, DVD-ROM, Note Book PC, etc.)

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

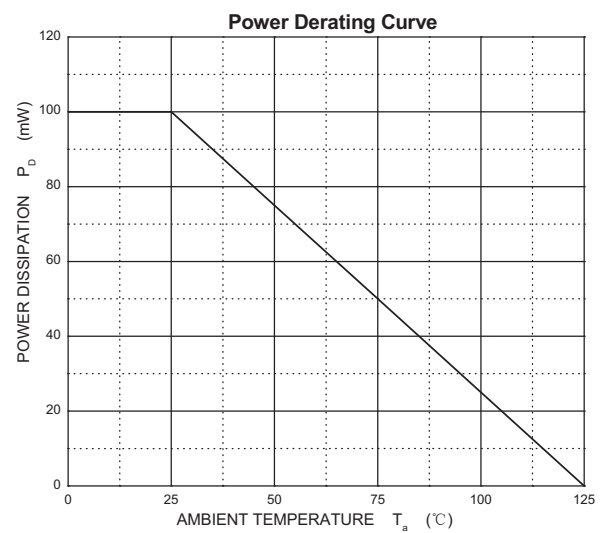
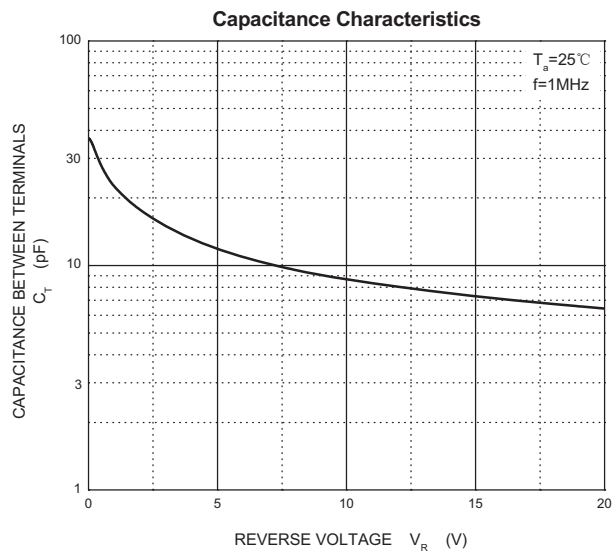
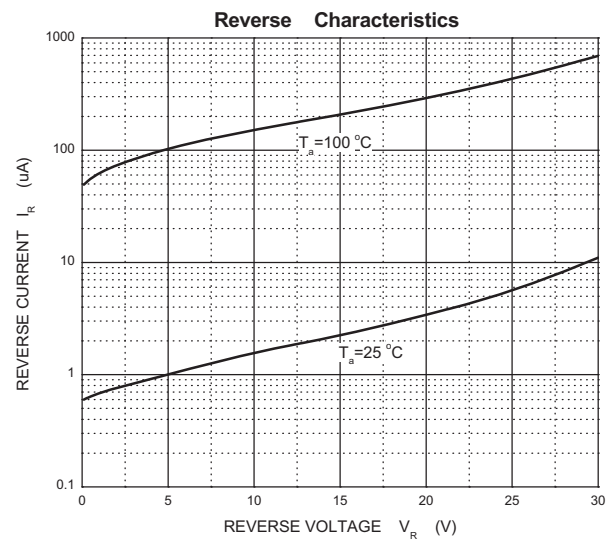
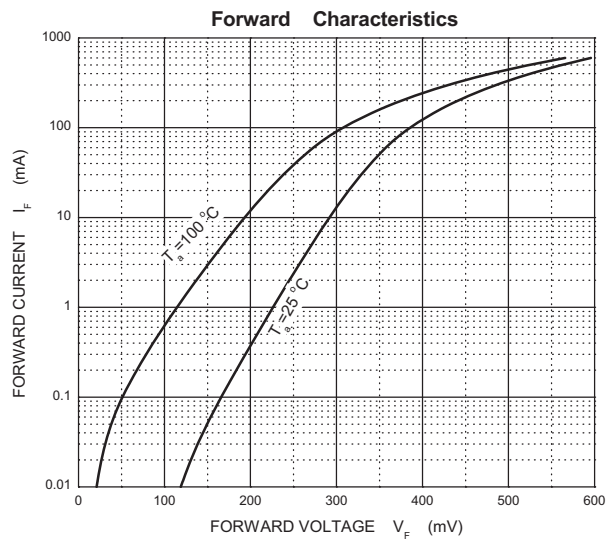
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	200	mA
Non-repetitive Peak forward surge current @ t=8.3ms	I_{FSM}	1	A
Power dissipation	P_D	100	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	1000	°C/W
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-55~+150	°C

Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}			0.35	V	$I_F=10mA$
	V_{F2}			0.5	V	$I_F=200mA$
Reverse current	I_R			10	KA	$V_R=10V$

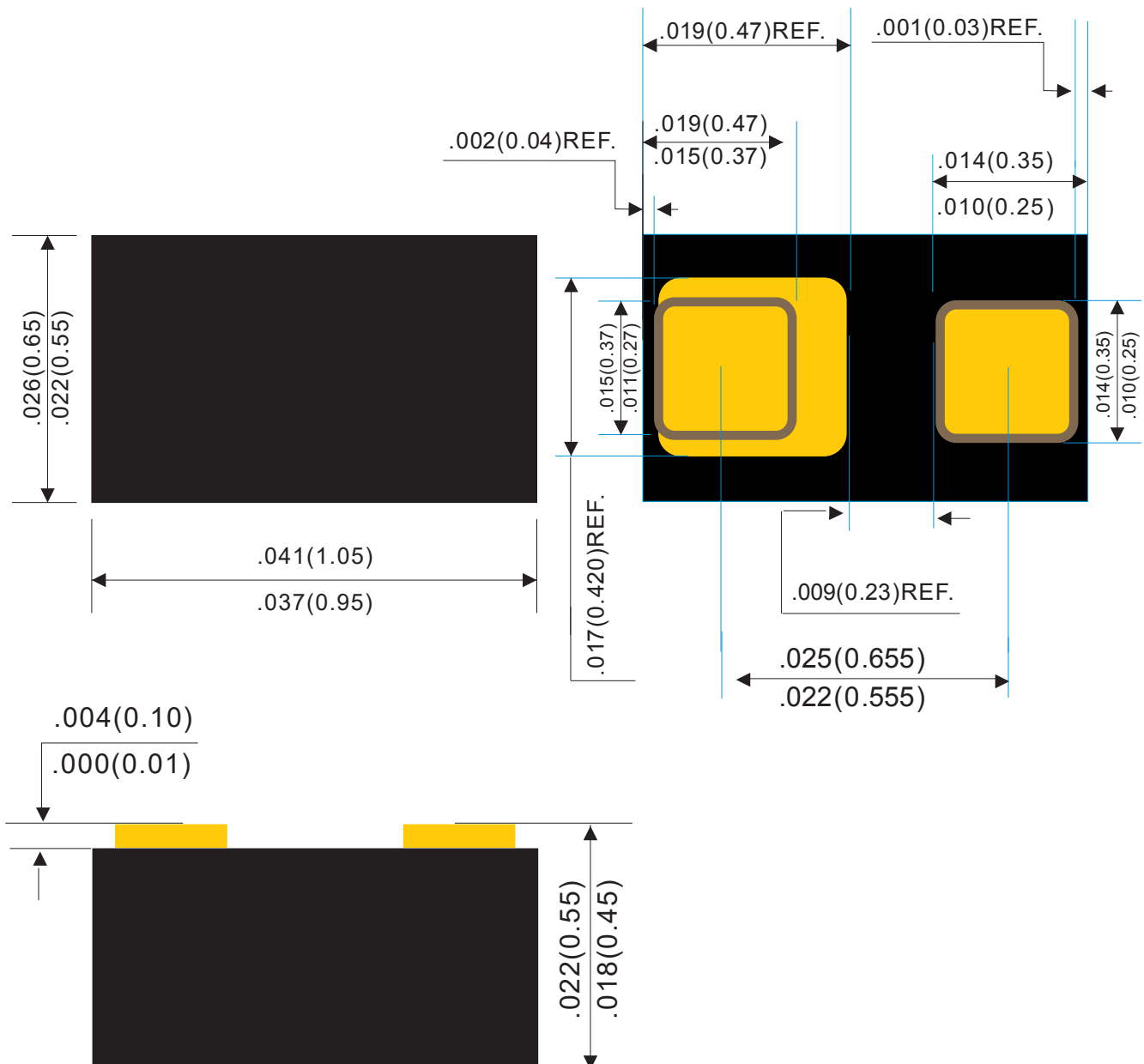


Typical Characteristics



Outline Drawing

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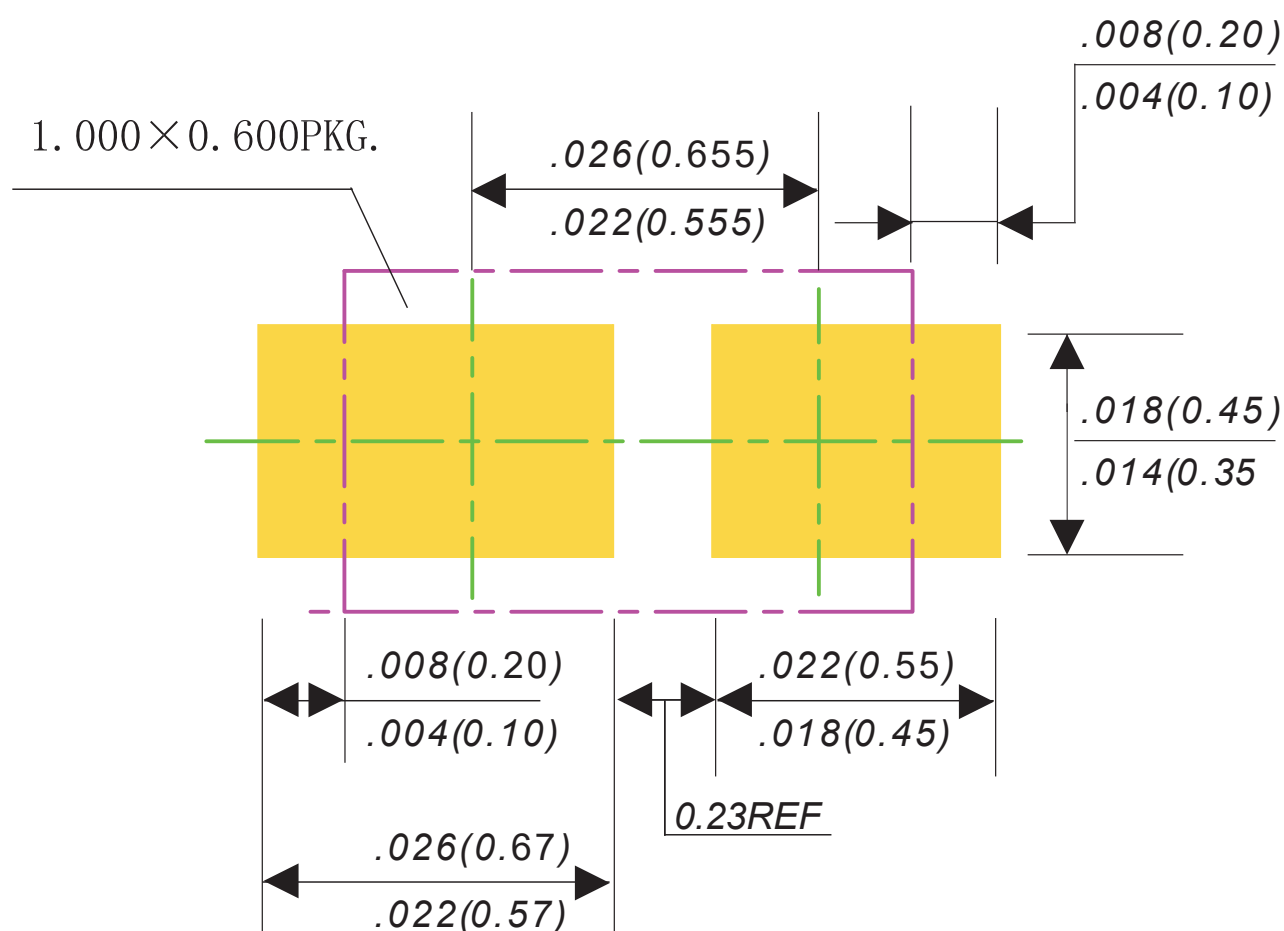
Dimensions in inches and (millimeters)

Rev.E



Suggested Soldering Pad Layout

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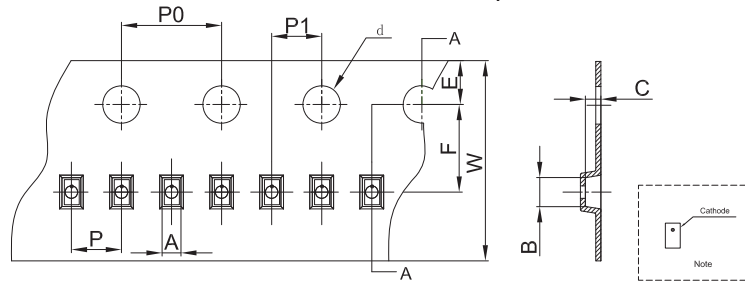
Dimensions in inches and (millimeters)

RevB



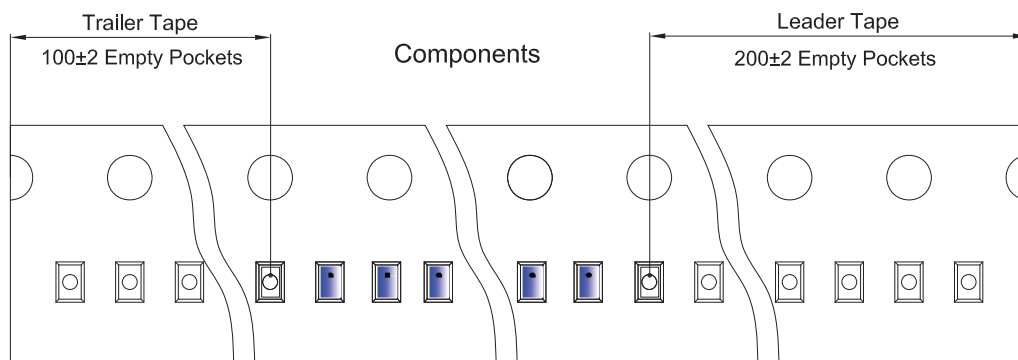
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WBFBP-02C Embossed Carrier Tape

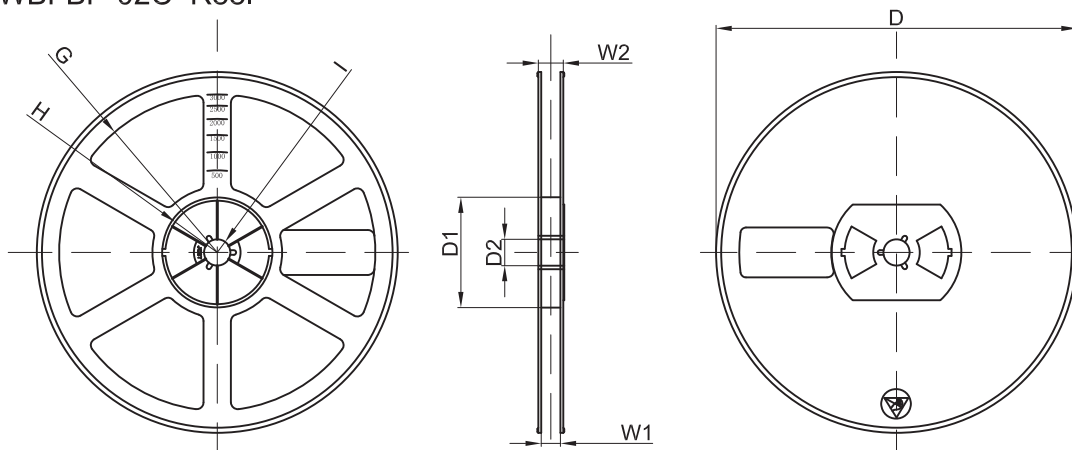


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
WBFBP-02C	0.66	1.15	0.66	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00
(Tolerance)	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

WBFBP-02C Tape Leader and Trailer



WBFBP-02C Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30
Tolerance	+/-2	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1

**Ordering Information:**

Device PN	Marking ⁽⁴⁾	Packing
DS521-30WB-T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	· F	Tape&Reel: 10 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Packing code suffix "G" for RoHS product : Packing code Suffix "H" for halogen free product
All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals

(3) Willas brand abbreviation, Label Type does not display

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device

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