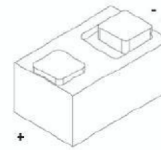


**Plastic-Encapsulate Schottky Barrier Diodes**

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.)

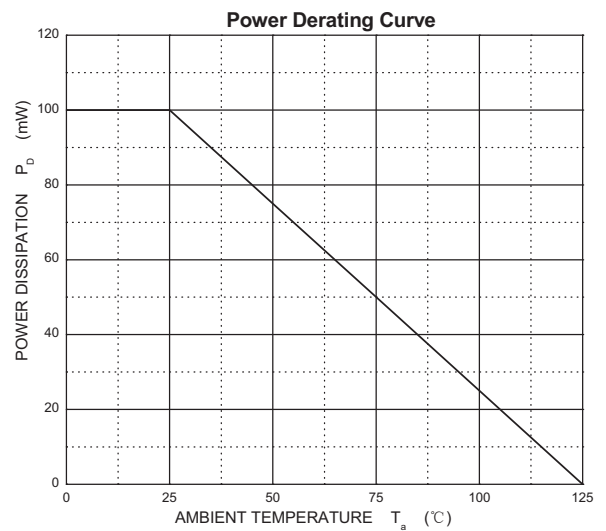
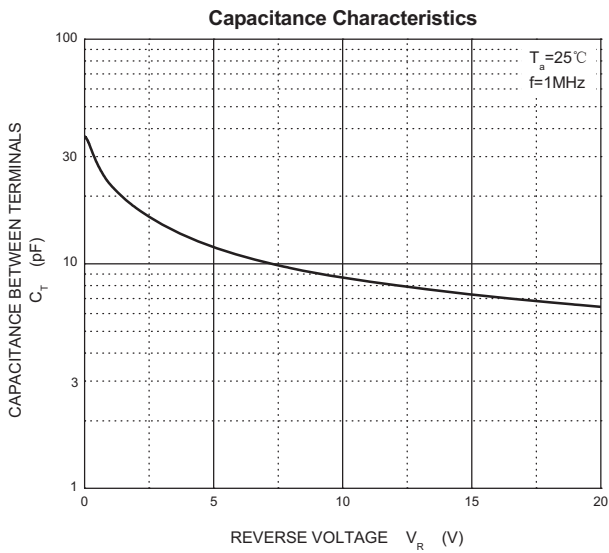
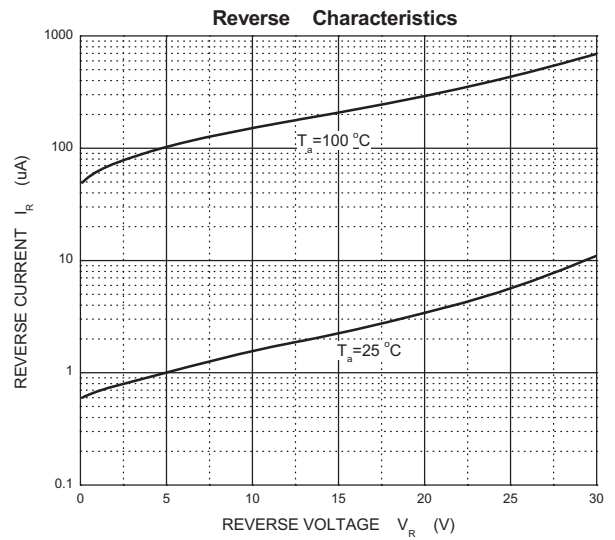
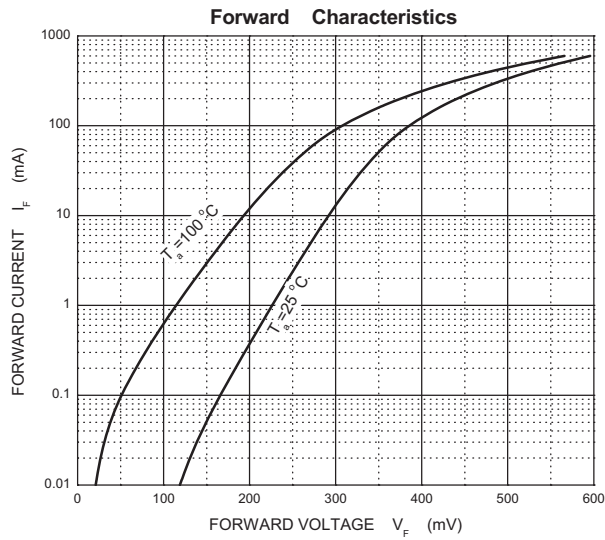
**Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C**

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**

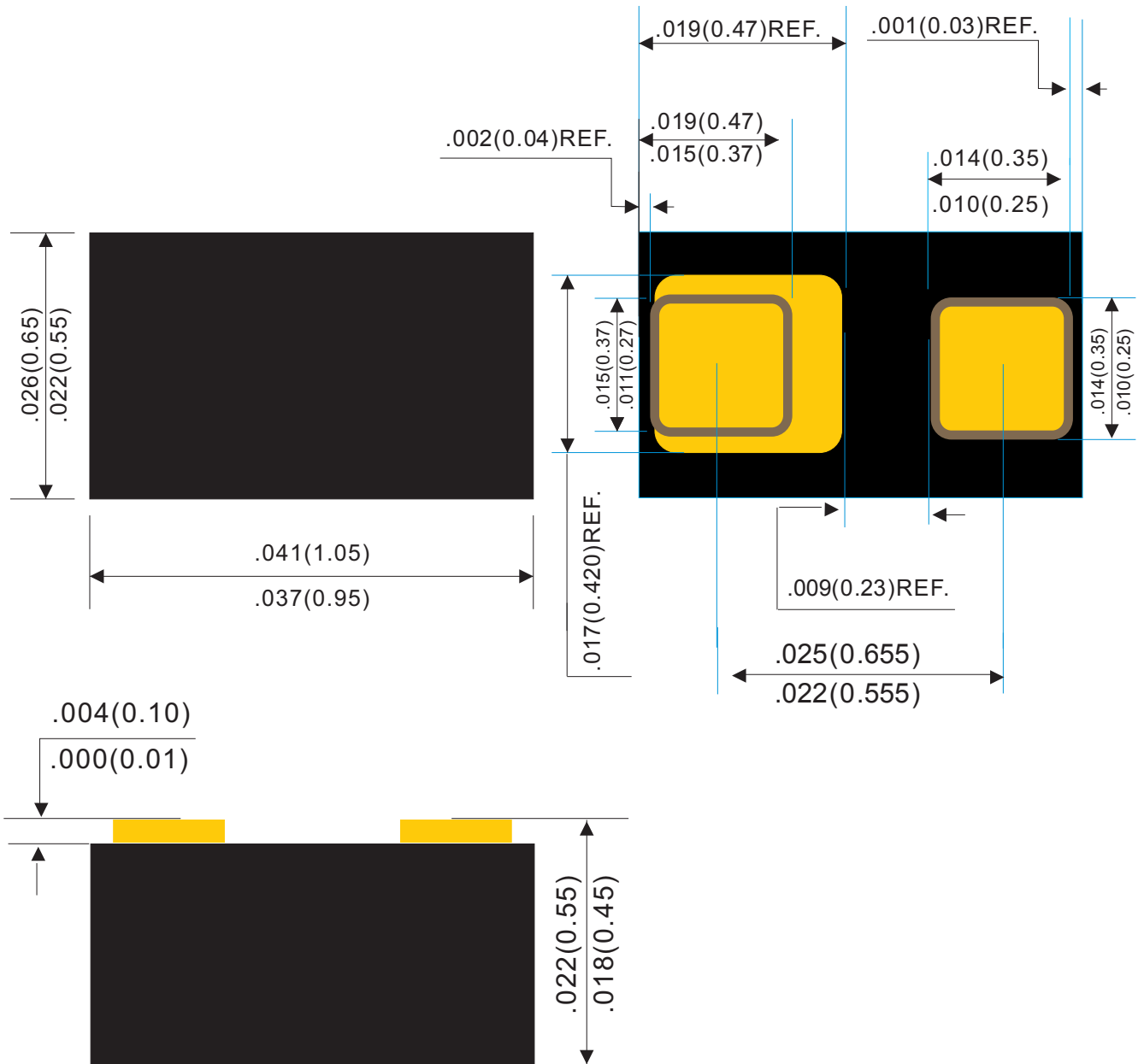
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	$V_{F1}$			0.35	V	$I_F=10mA$
	$V_{F2}$			0.5	V	$I_F=200mA$
Reverse current	$I_R$			10	μA	$V_R=10V$

### Typical Characteristics



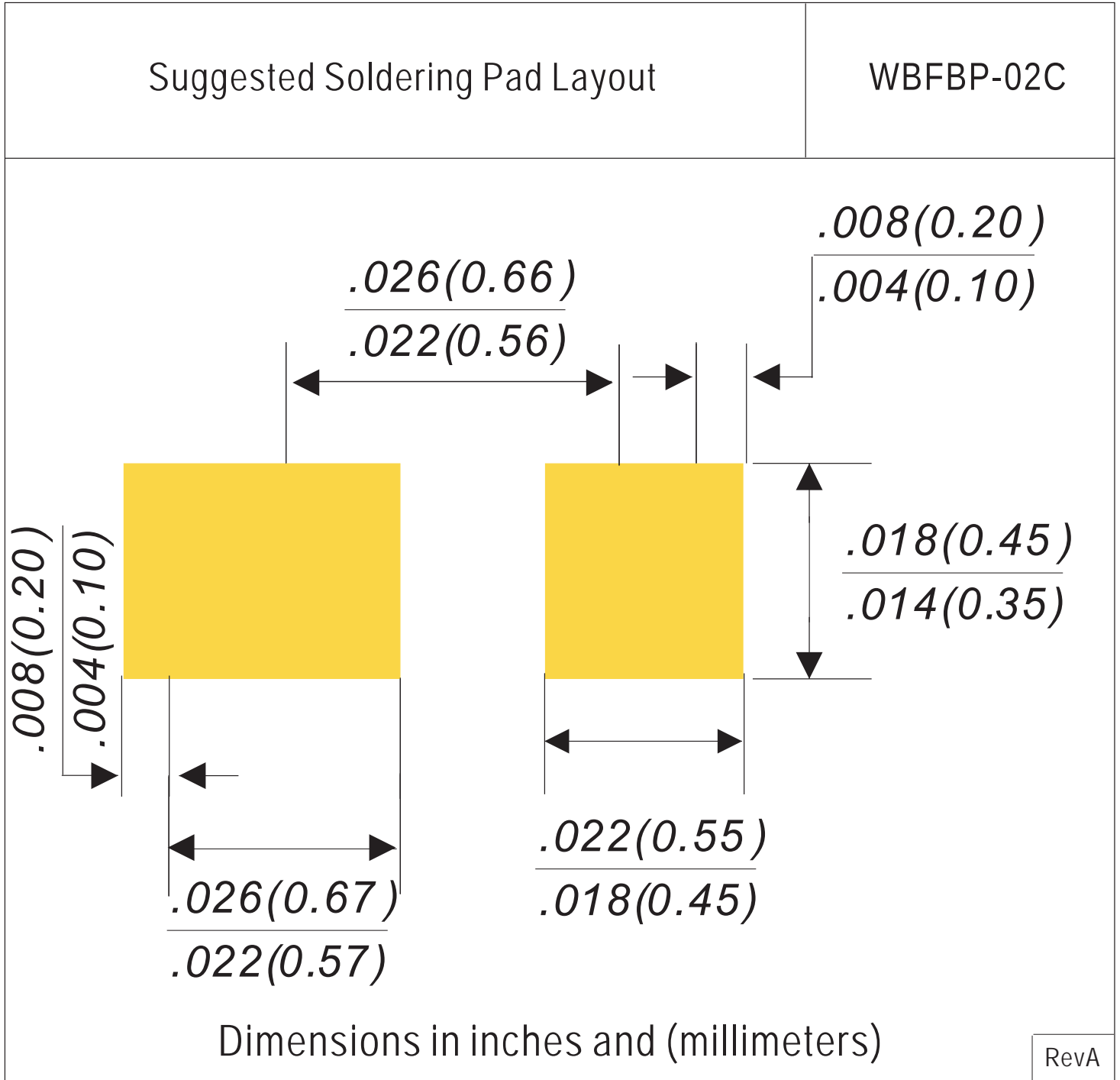
# Outline Drawing

# WBFBP-02C

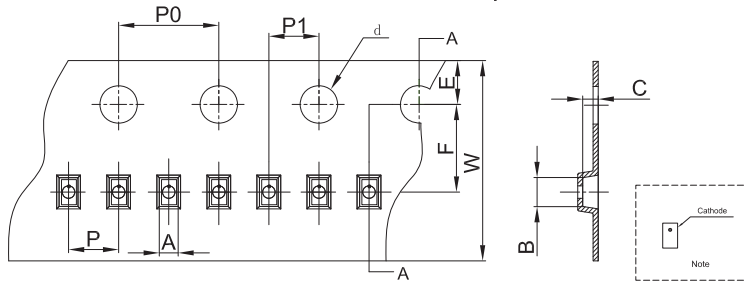


Dimensions in inches and (millimeters)

Rev.D

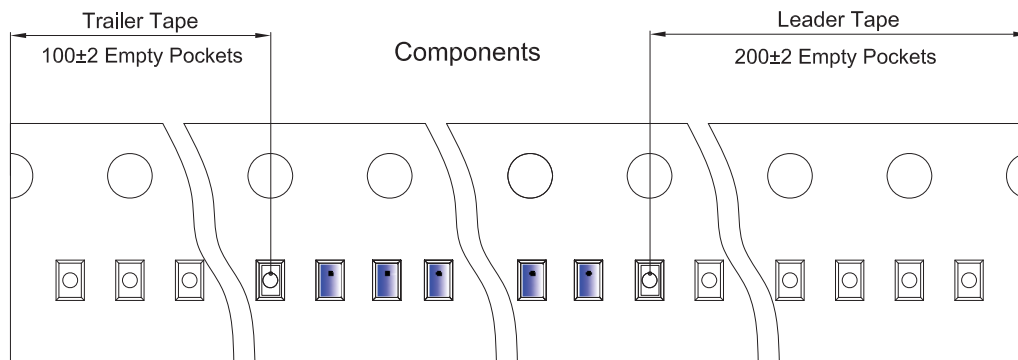


### WBFBP-02C Embossed Carrier Tape

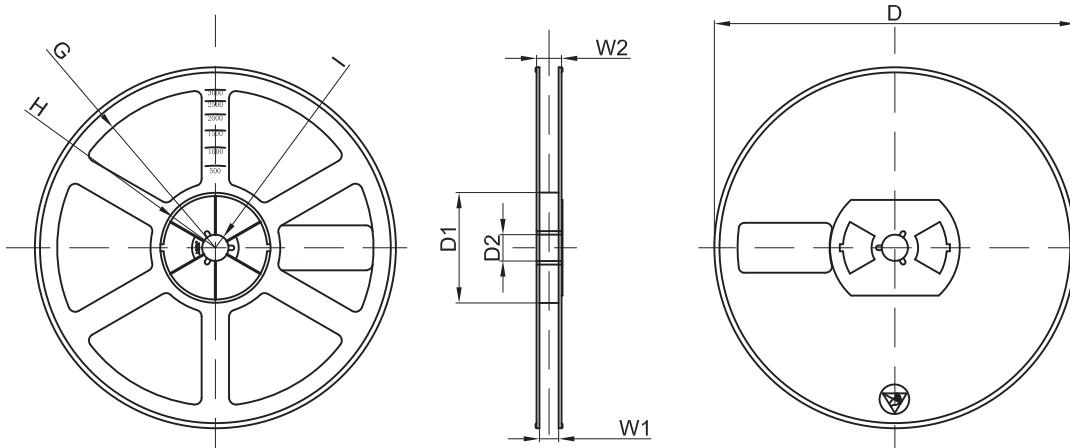


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
WBFBP-02C	0.66	1.15	0.66	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00
(Tolerance)	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

### 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

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
10,000 pcs	7 inch	150,000 pcs	203×203×195	600,000 pcs	438×438×220	

**Ordering Information:**

Device PN	Packing
DS521-30WB -T <sup>(1)</sup> G <sup>(2)</sup> -WS	Tape&Reel: 10 Kpcs/Reel

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

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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