

## SWITCHING DIODE

### WBFBP-02C Plastic-Encapsulate Diodes

VOLTAGE 90 Volts CURRENT 0.1 Ampere

#### DESCRIPTION

Silicon Epitaxial Planar

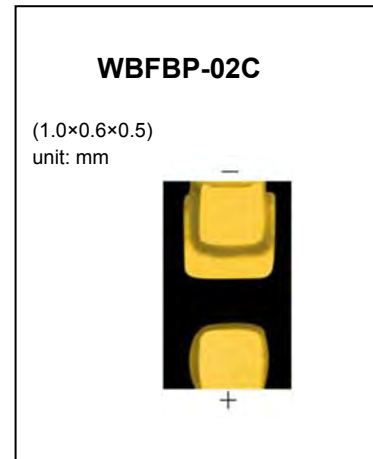
#### FEATURES

- Small Surface Mounting Type
- High Speed
- High Reliability with High Surge Current Handling Capability

#### APPLICATION

High Speed Switching for Detection

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



Moisture Sensitivity Level 1

#### MARKING: 7



Pb-Free package is available

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	90	V
DC Reverse Voltage	$V_R$	80	V
Peak Forward Current	$I_{FM}$	225	mA
Mean Rectifying Current	$I_o$	100	mA
Surge Current @t=1s	$I_{surge}$	500	mA
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~+150	°C

#### Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	$V_F$			1.2	V	$I_F=100mA$
Reverse current	$I_R$			0.1	$\mu A$	$V_R=80V$
Capacitance between terminals	$C_T$			3.0	pF	$V_R=0.5V, f=1MHz$
Reverse recovery time	$t_{rr}$			4	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$



### RATING CHARACTERISTIC CURVES ( 1SS400WB )

FIG. 1 - SURGE CURRENT CHARACTERISTICS

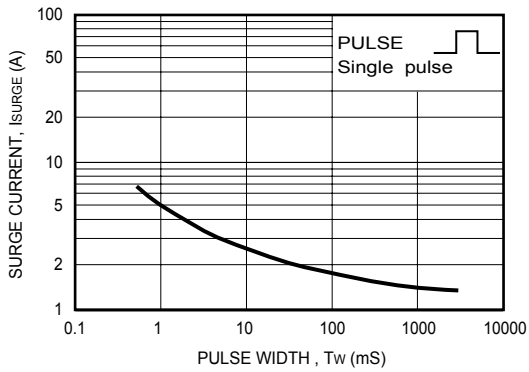


FIG. 2 - FORWARD CHARACTERISTICS

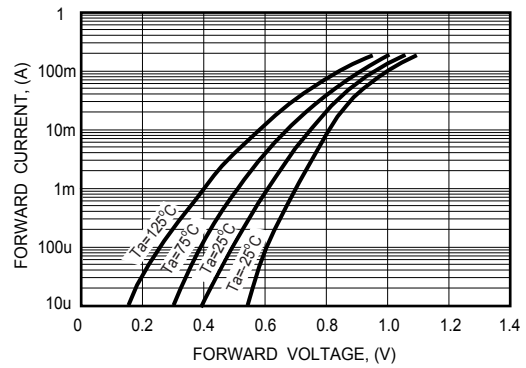


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

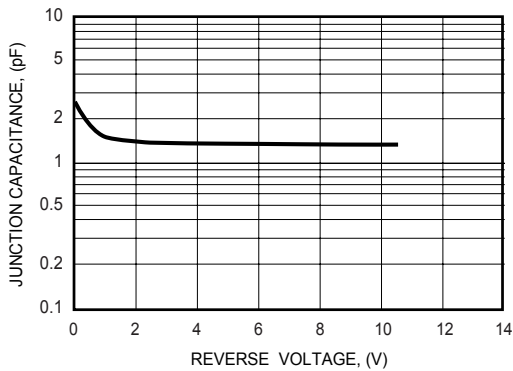


FIG. 4 - REVERSE CHARACTERISTICS

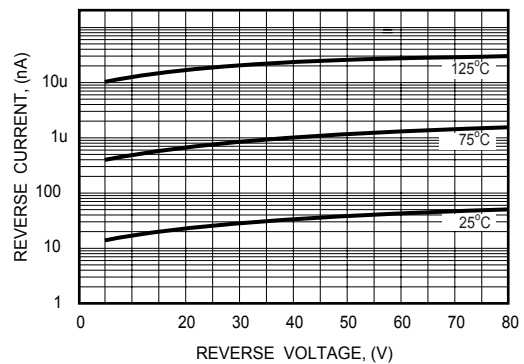


FIG. 5 - REVERSE RECOVERY TIME

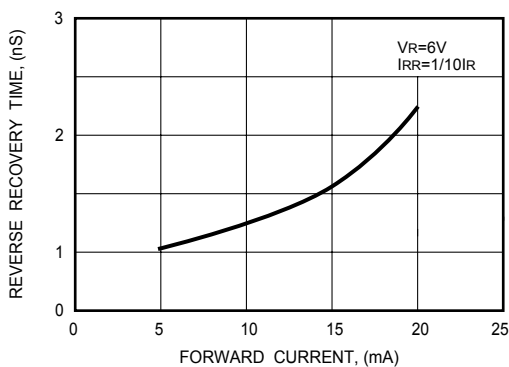
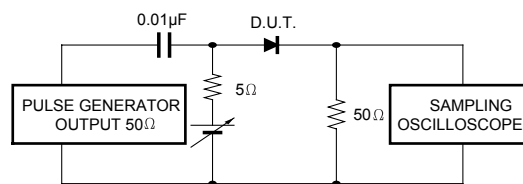


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT





### Ordering Information:

Device PN	Packing
1SS400WB-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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