

### SWITCHING Diodes

### SOD-923

#### • Applications

High speed switching

#### • Features

- 1) Extremely small surface mounting type.
- 2) High Speed.
- 3) High reliability.

#### • Construction

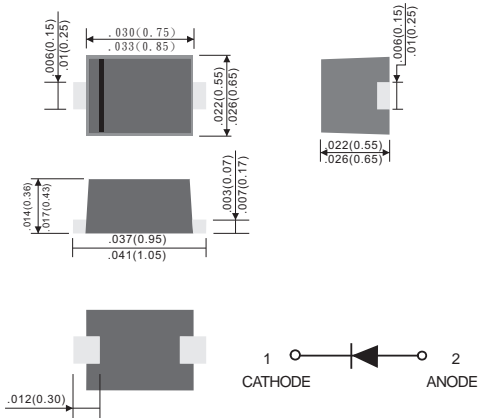
Silicon epitaxial planar

**Pb-Free package is available**

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

Moisture Sensitivity Level 1



Dimensions in inches and (millimeters)

Marking code: 3'cf'+

### Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25

Parameter		Limits	Unit
Peak reverse voltage	V <sub>RM</sub>	90	V
DC reverse voltage	V <sub>R</sub>	80	V
Peak forward current	I <sub>FM</sub>	225	mA
Mean rectifying current	I <sub>O</sub>	100	mA
Surge current (1s)	I <sub>surge</sub>	500	mA
Junction temperature	T <sub>j</sub>	125	
Operating/Storage temperature	T <sub>stg</sub>	-55~+125	

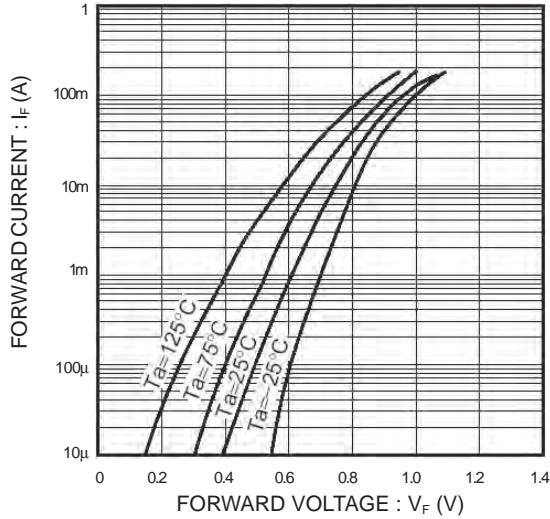
### Electrical Ratings @T<sub>A</sub>=25

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>			1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>			0.1	μA	V <sub>R</sub> =80V
Capacitance between terminals	C <sub>T</sub>			3.0	pF	V <sub>R</sub> =0.5V,f=1MHZ
Reverse recovery time	t <sub>rr</sub>			4	ns	V <sub>R</sub> =6V,I <sub>F</sub> =10mA,R <sub>L</sub> =100

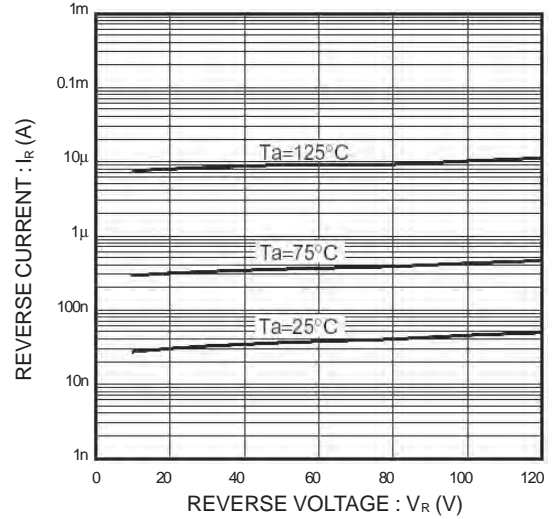


### ELECTRICAL CHARACTERISTIC CURVES

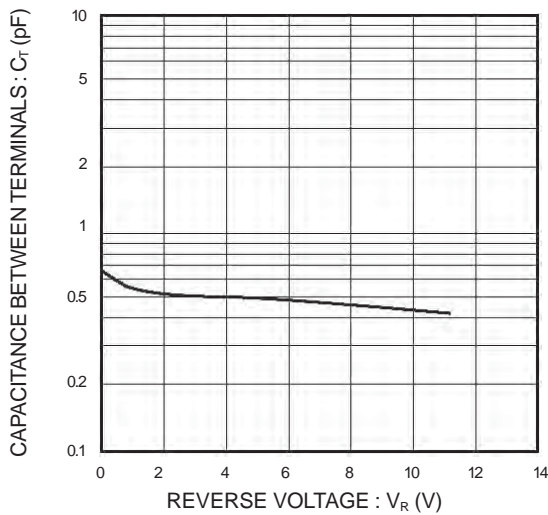
( $T_a = 25^\circ\text{C}$ )



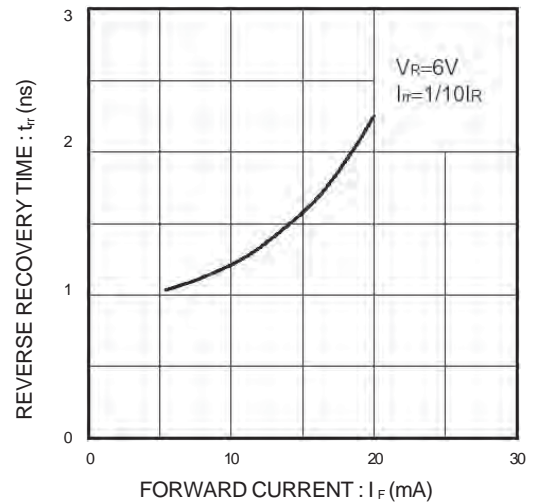
**Fig.1 Forward characteristics**



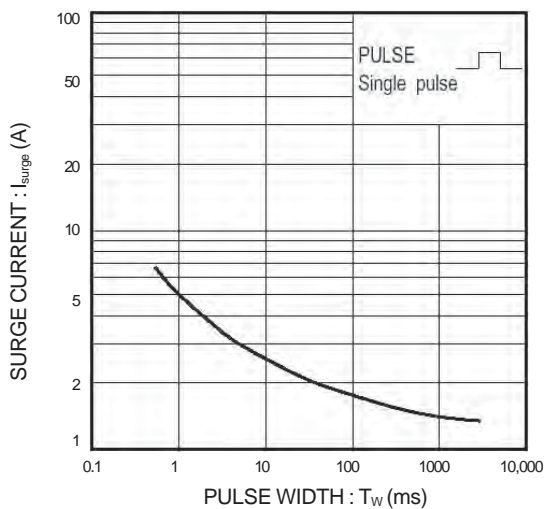
**Fig.2 Reverse characteristics**



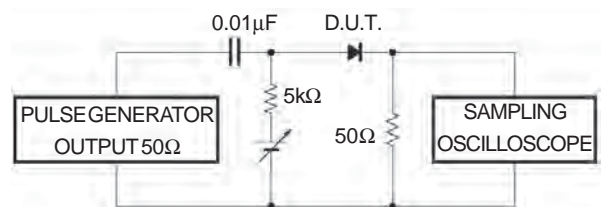
**Fig.3 Capacitance between terminals**



**Fig.4 Reverse recovery time characteristics**



**Fig.5 Surge current characteristics**



**Fig.6 Reverse recovery time ( $t_{rr}$ ) measurement circuit**



# WILLAS



## 1SS400CST5

### Ordering Information:

Device PN	Packing
1SS400CST5 <sup>(1)</sup> -WS	Tape&Reel: 8 Kpcs/Reel

Note: (1) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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