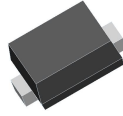




# WILLAS



## 1SS400CST5G



### SWITCHING Diodes

SOD-923

• **Applications**

High speed switching

• **Features**

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

• **Construction**

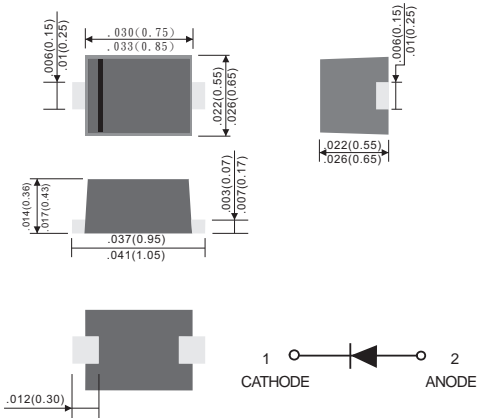
Silicon epitaxial planar

**Pb-Free package is available**

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

**Marking code: 3**



Dimensions in inches and (millimeters)

### 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	
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

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

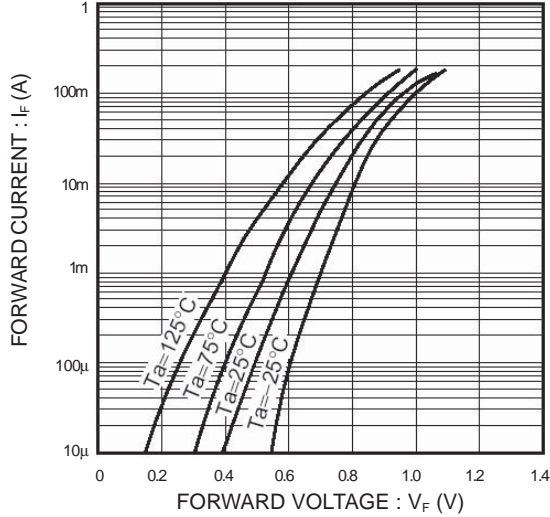


Fig.1 Forward characteristics

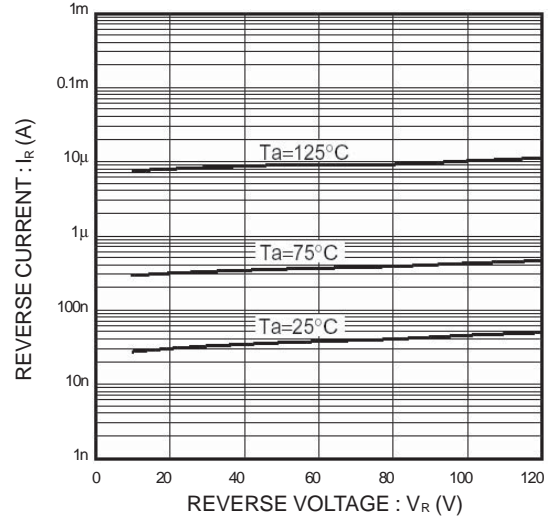


Fig.2 Reverse characteristics

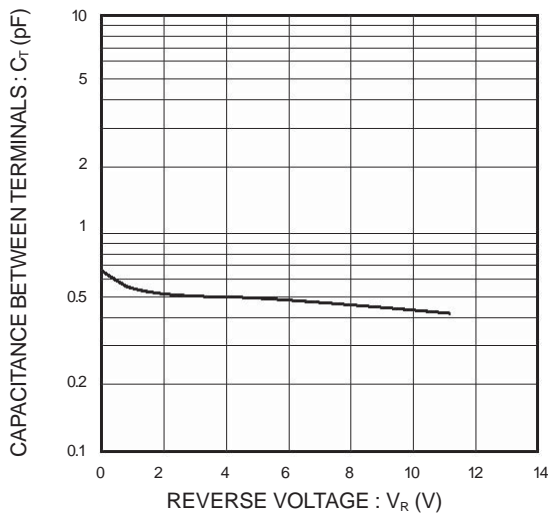


Fig.3 Capacitance between terminals

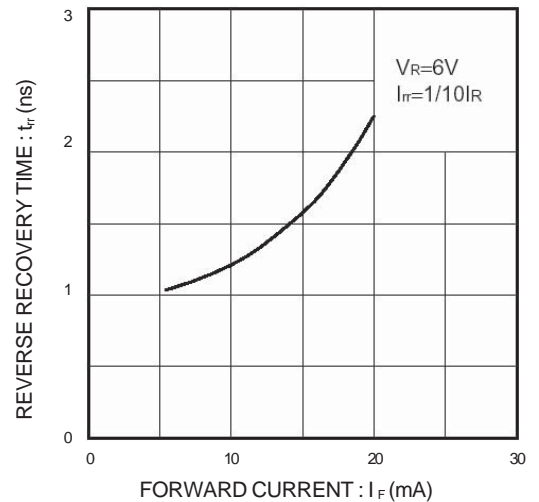


Fig.4 Reverse recovery time characteristics

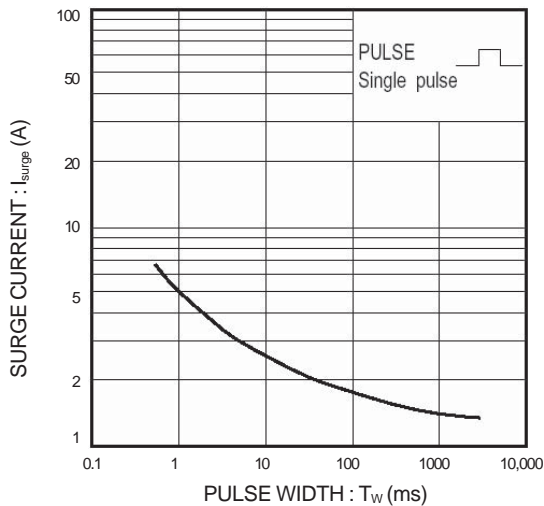


Fig.5 Surge current characteristics

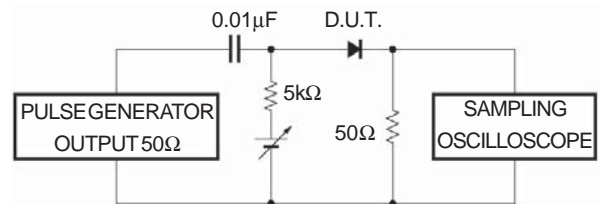


Fig.6 Reverse recovery time ( $t_{rr}$ ) measurement circuit