

SWITCHING Diodes

SOD-923

• Applications

High speed switching

• Features

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

• Construction

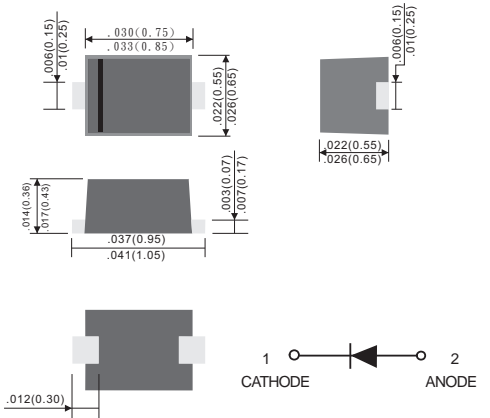
Silicon epitaxial planar

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_A=25

Parameter		Limits	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 (1s)	I _{surge}	500	mA
Junction temperature	T _j	125	
Operating/Storage temperature	T _{stg}	-55~+125	

Electrical Ratings @T_A=25

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =100mA
Reverse current	I _R			0.1	μA	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



ELECTRICAL CHARACTERISTIC CURVES

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

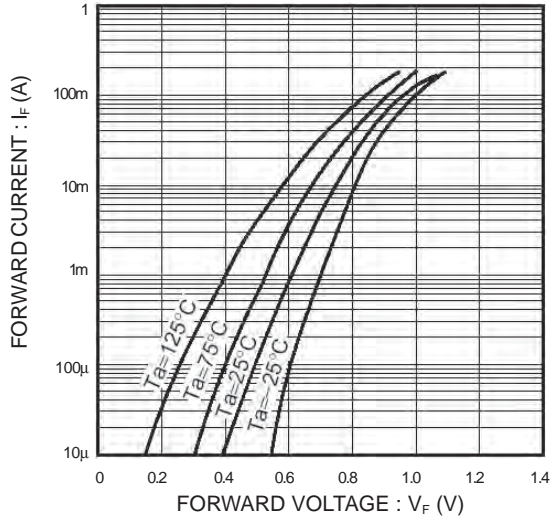


Fig.1 Forward characteristics

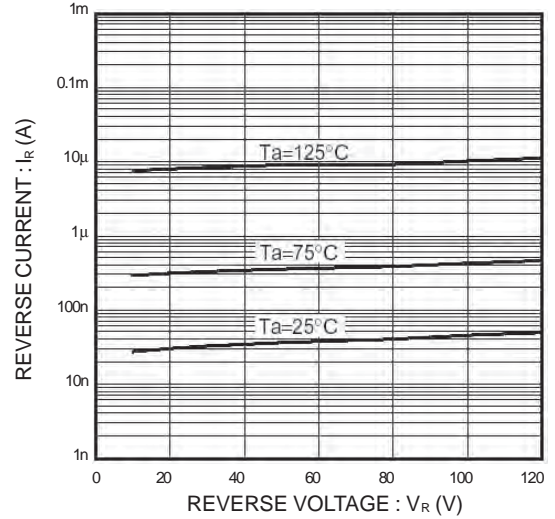


Fig.2 Reverse characteristics

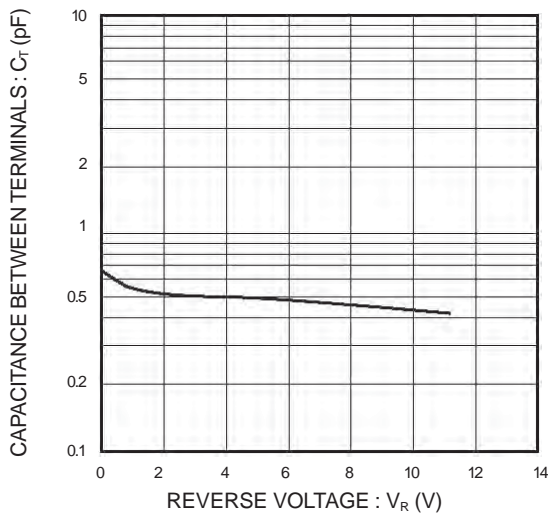


Fig.3 Capacitance between terminals

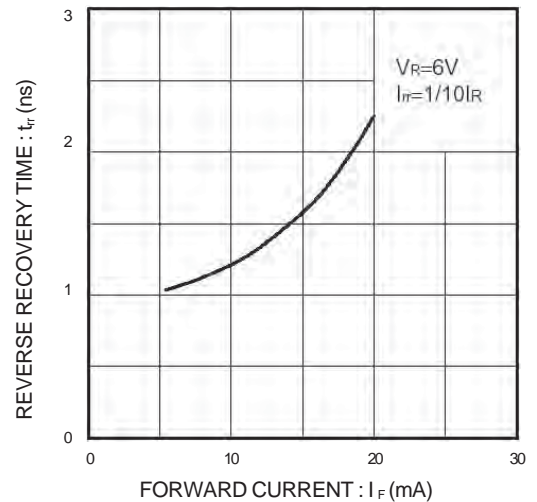


Fig.4 Reverse recovery time characteristics

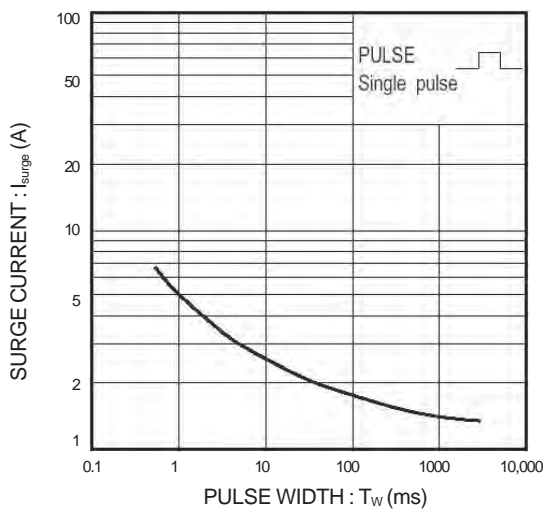


Fig.5 Surge current characteristics

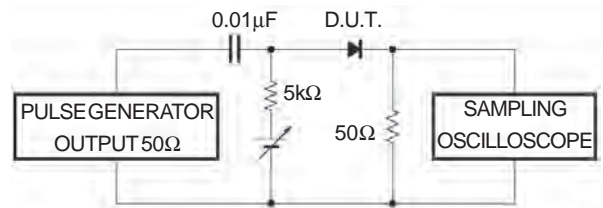


Fig.6 Reverse recovery time (t_{rr}) measurement circuit



WILLAS



1SS400CST5

Ordering Information:

Device PN	Packing
1SS400CST5 ⁽¹⁾ -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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