



WILLAS



100mA SMALL SIGNAL SWITCHING DIODE - 90V
SOD-323 PACKAGE

1SS355

• Applications

High speed switching

• Features

- 1) Small surface mounting type.
- 2) High Speed.($t_{rr}=1.2\text{ns}$ Typ.)
- 3) High reliability with high surge current handling capability.
- 4) RoHS product for packing code suffix "G",
Halogen free product for packing code suffix "H".
- 5) Weight :0.01g

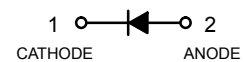
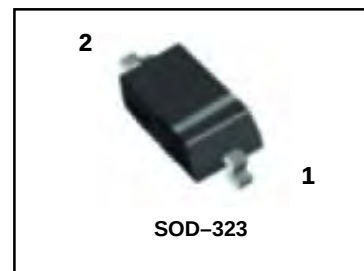
• Construction

Silicon epitaxial planar

Moisture Sensitivity Level 1

• Device Marking and Ordering Information

Device	Marking	Shipping
1SS355	5D	3000/Tape&Reel



• Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	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	°C
Operating/Storage temperature	T_{stg}	-55~+125	°C

• Electrical characteristics (Ta=25°C)

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



• Electrical characteristic curves ($T_a=25^\circ\text{C}$)

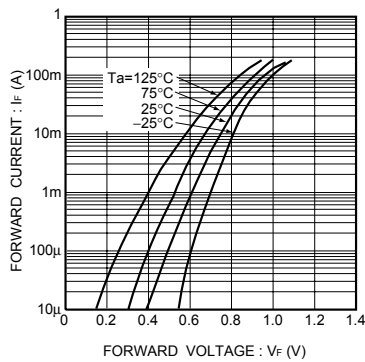


Fig.1 Forward characteristics

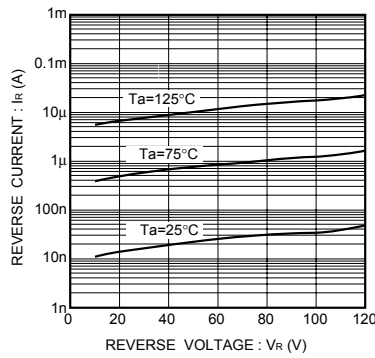


Fig.2 Reverse characteristics

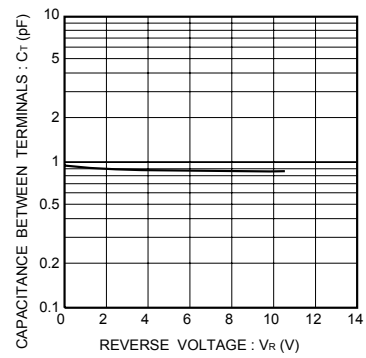


Fig.3 Capacitance between terminals characteristics

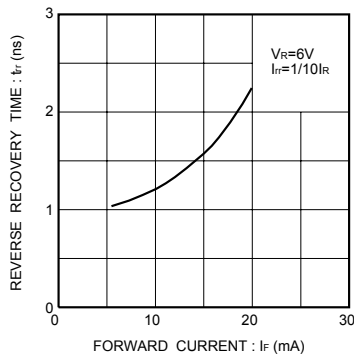


Fig.4 Reverse recovery time characteristics

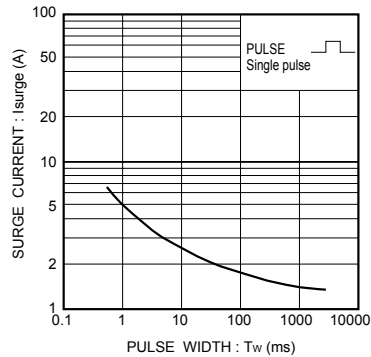


Fig.5 Surge current characteristics

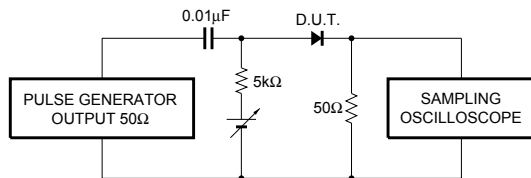
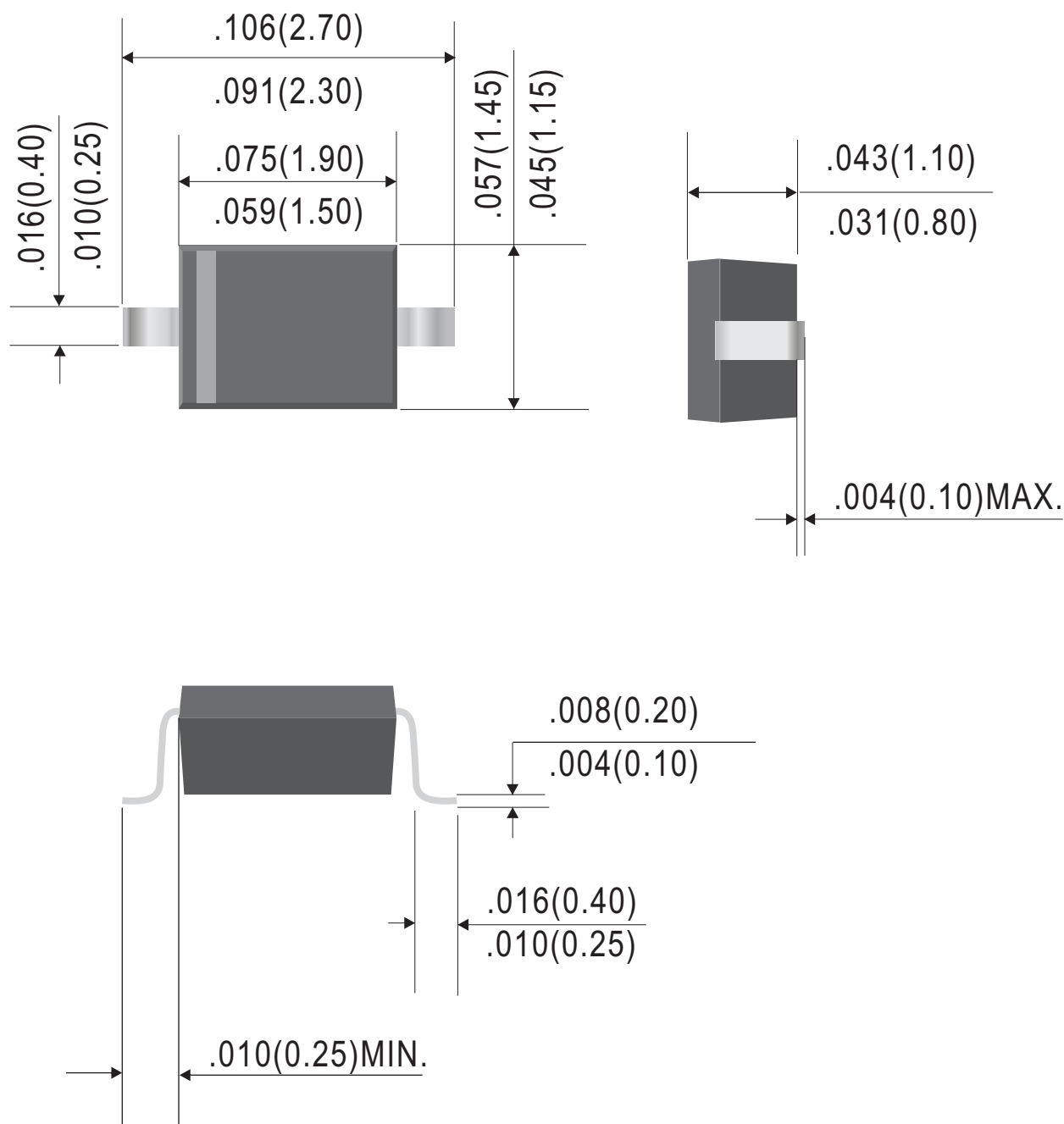


Fig.6 Reverse recovery time (t_{rr}) measurement circuit



Outline Drawing

SOD-323



Dimensions in inches and (millimeters)



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1SS355

Ordering Information:

Device PN	Packing
1SS355-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 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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