



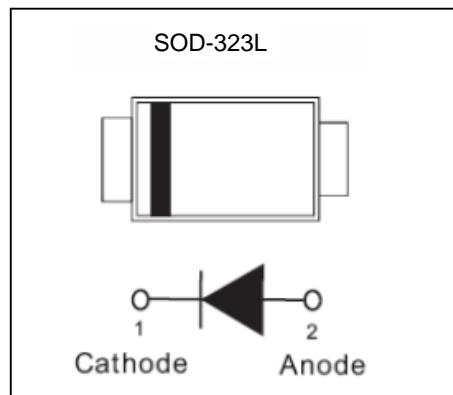
SOD-323 Plastic-Encapsulate Diodes



1SS355 FAST SWITCHING DIODES

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.



Maximum Ratings and Electrical Characteristics, Single Diode @ $T_A=25^\circ\text{C}$

Parameter	Symbol	Limits		Unit
Non-Repetitive Peak reverse voltage	V_{RM}	90		V
DC Blocking Voltage	V_R	80		V
Peak forward Current	I_{FM}	225		mA
Average Rectified Output Current	I_O	100		mA
Surge current (1s)	I_{surge}	500		mA
Junction temperature	T_j	125		$^\circ\text{C}$
Storage temperature	T_{STG}	-55~+125		$^\circ\text{C}$

Electrical Ratings @ $T_A=25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
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	pF	$V_R=0.5\text{V}, f=1\text{MHz}$
Reverse Recovery Time	t_{rr}			4	ns	$I_F=10\text{mA}, V_R=6\text{V}, R_L=100\Omega$



Typical Characteristics

1SS355

●Electrical characteristic curves ($T_a=25^\circ C$)

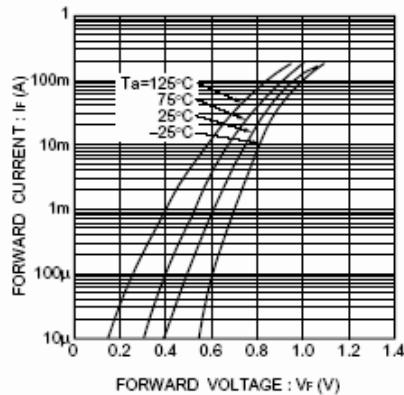


Fig.1 Forward characteristics

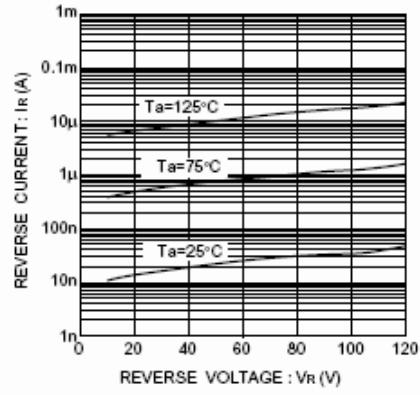


Fig.2 Reverse characteristics

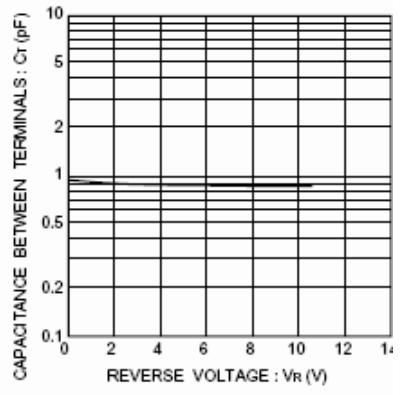


Fig.3 Capacitance between terminals characteristics

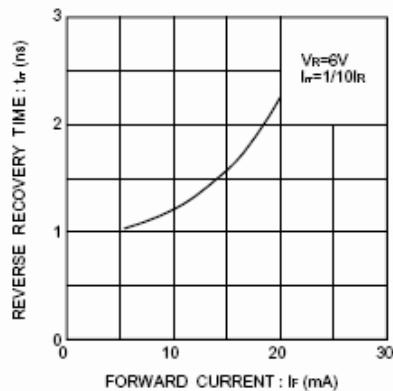


Fig.4 Reverse recovery time characteristics

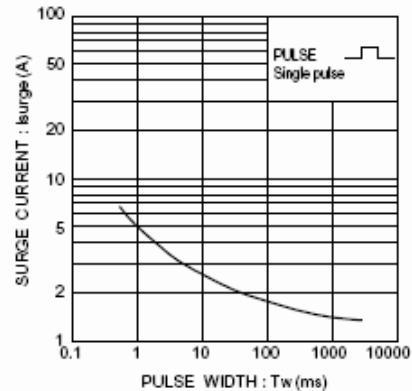
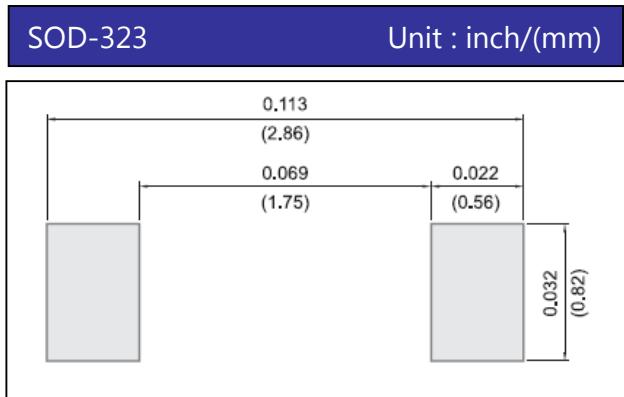
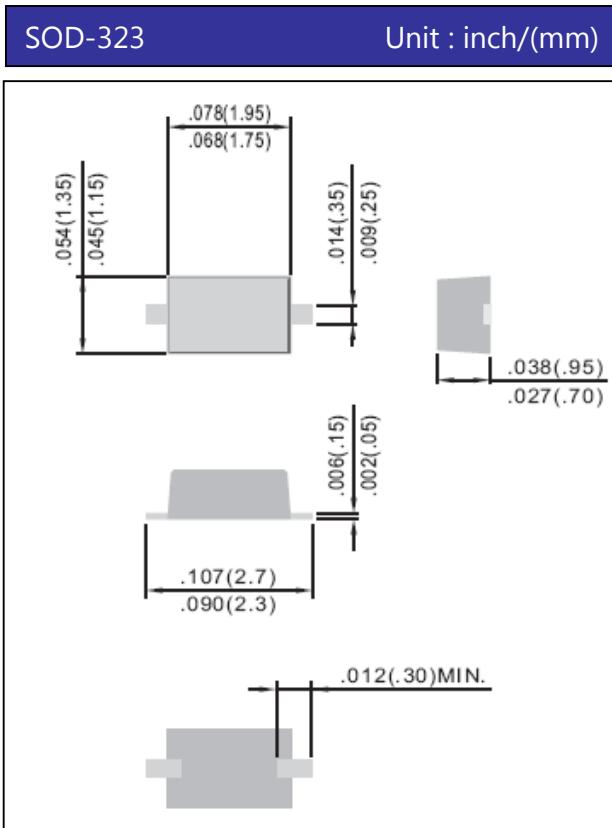


Fig.5 Surge current characteristics



SOD-323 PACKAGE DIMENSIONS AND BOND PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel