

**1SS355** FAST SWITCHING DIODES

SOD-323

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**FEATURES**

- 1) Small surface mounting type.(UMD2)
- 2) High Speed.( $t_r=1.2ns$  Typ.)
- 3) High reliability with high surge current handling capability.

**MARKING: A****Maximum Ratings and Electrical Characteristics, Single Diode @ $T_A=25^\circ C$** 

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	$^\circ C$
Storage temperature	$T_{STG}$	-55~+125	$^\circ C$

**Electrical Ratings @ $T_A=25^\circ C$** 

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$			1.2	V	$I_F=100mA$
Reverse current	$I_R$			0.1	$\mu A$	$V_R=80V$
Capacitance between terminals	$C_T$			3	pF	$V_R=0.5V, f=1MHz$
Reverse Recovery Time	$t_{rr}$			4	ns	$I_F=10mA, V_R=6V, R_L=100\Omega$

● Electrical characteristic curves (Ta=25°C)

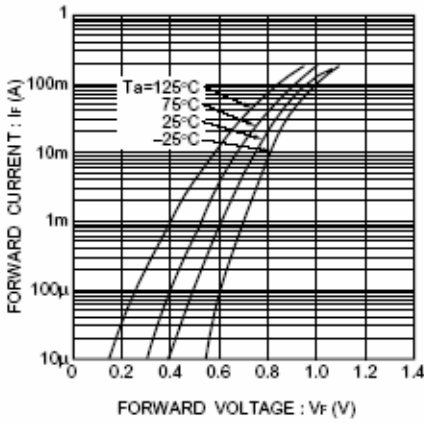


Fig.1 Forward characteristics

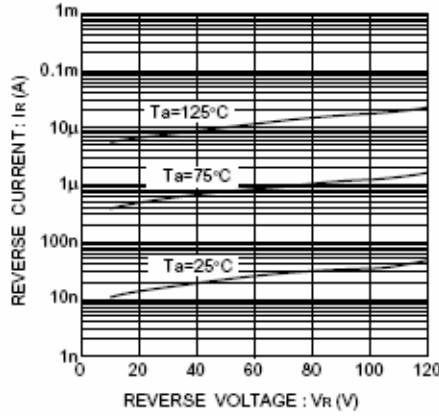


Fig.2 Reverse characteristics

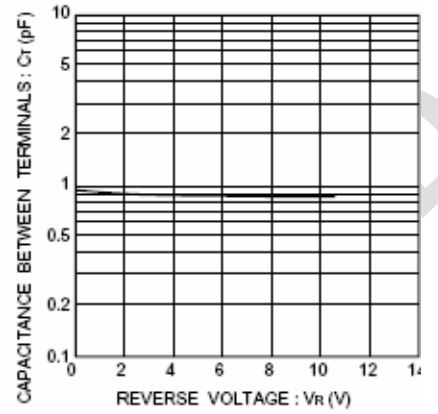


Fig.3 Capacitance between terminals characteristics

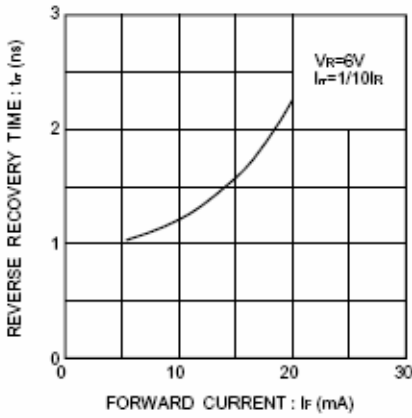


Fig.4 Reverse recovery time characteristics

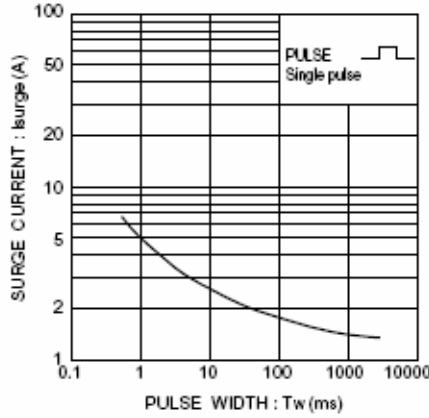


Fig.5 Surge current characteristics

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