

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	μA	$V_R=80V$
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)

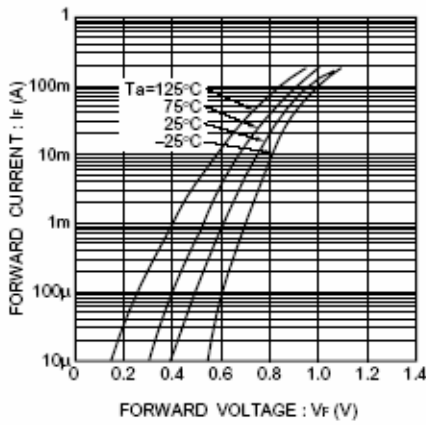


Fig.1 Forward characteristics

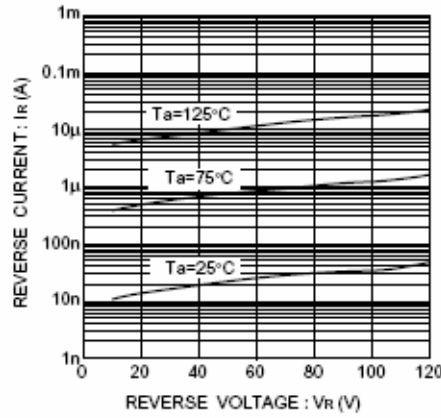


Fig.2 Reverse characteristics

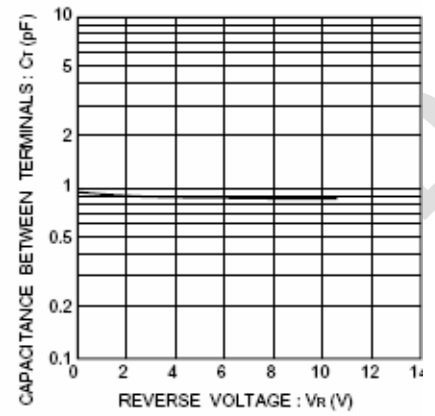


Fig.3 Capacitance between terminals characteristics

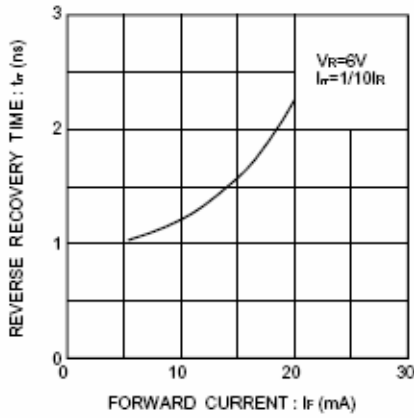


Fig.4 Reverse recovery time characteristics

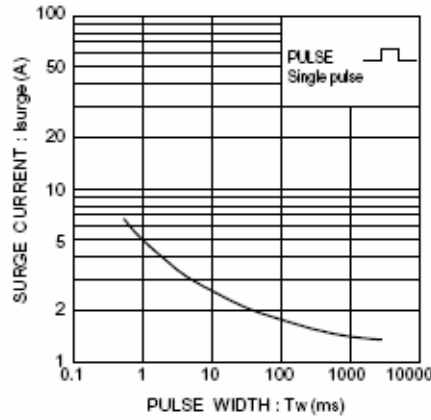


Fig.5 Surge current characteristics