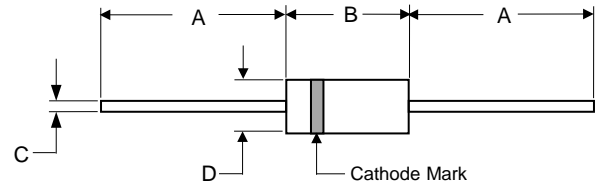


Features

- * Glass sealed envelope
- * High speed
- * High reliability
- * High-speed switching



RoHS
COMPLIANT



DO-35				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.083	---	27.50	---
B	---	0.154	---	3.90
C	---	0.020	---	0.50
D	---	0.075	---	1.90

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	90	V
DC Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	130	mA
Peak Forward Current	I_{FM}	400	mA
Surge Forward Current at $t < 1$ s	I_{FSM}	600	mA
Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{stg}	- 65 to + 175	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100$ mA	V_F	1.2	V
Reverse Current at $V_R = 80$ V	I_R	0.5	μA
Capacitance between Terminals at $V_R = 0.5$ V, $f = 1$ MHz	C_T	2	pF
Reverse Recovery Time at $I_F = 10$ mA, $V_R = 6$ V, $R_L = 50$ Ω	t_{rr}	4	ns

Ratings and Characteristic Curves

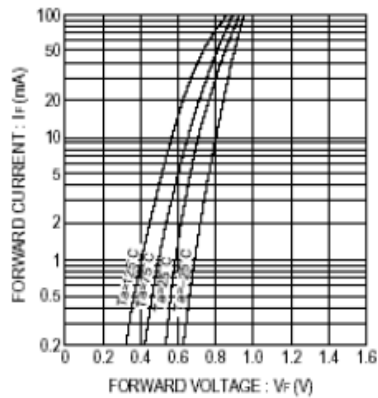


Fig. 1 Forward characteristics

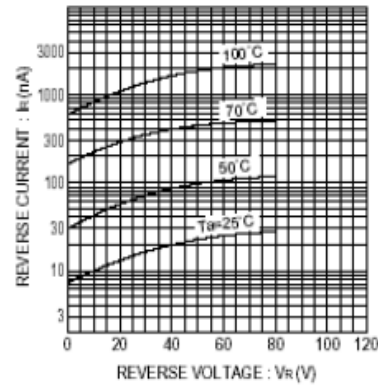


Fig. 2 Reverse characteristics

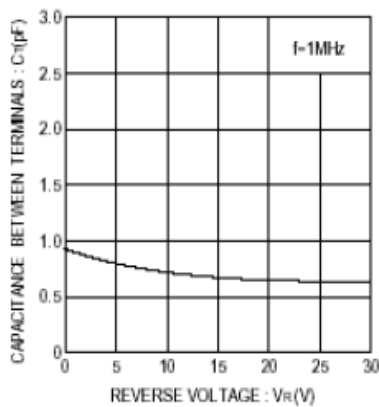


Fig. 3 Capacitance between terminals characteristics

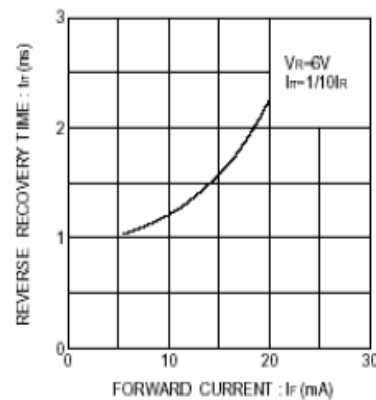


Fig. 4 Reverse recovery time characteristics

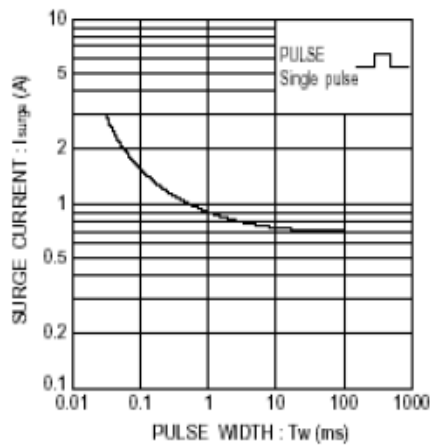


Fig.5 Surge current characteristics

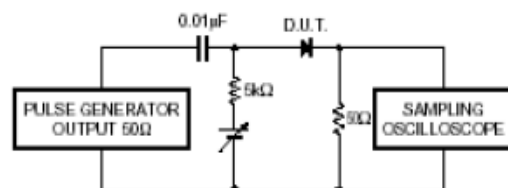


Fig. 6 Reverse recovery time (t_r) measurement circuit



1SS133

Silicon Epitaxial Planar Switching Diode

Ordering Information

Part No.	Package	Packing Code	Packing
1SS133	DO-35	A50	5000pcs/Ammo

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