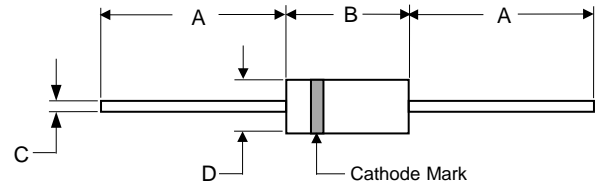


### Features

- \* 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<sub>A</sub>=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<sub>A</sub>=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

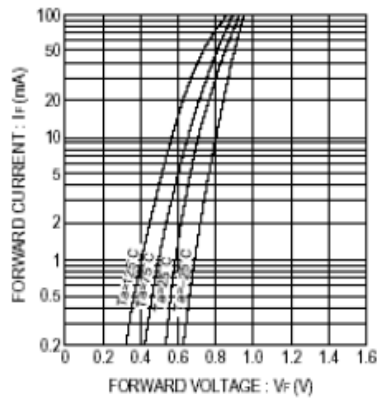


Fig. 1 Forward characteristics

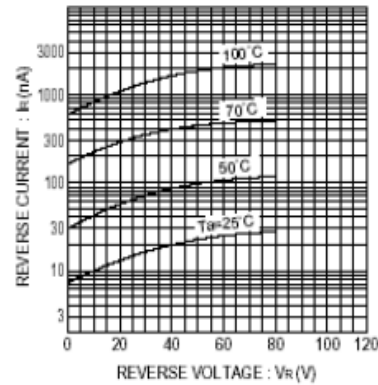


Fig. 2 Reverse characteristics

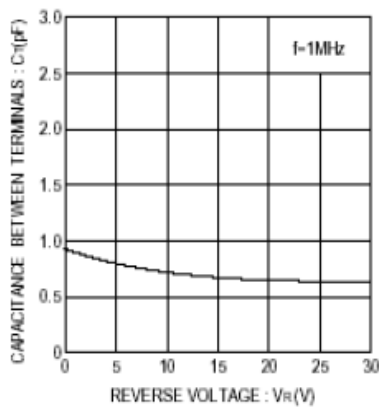


Fig. 3 Capacitance between terminals characteristics

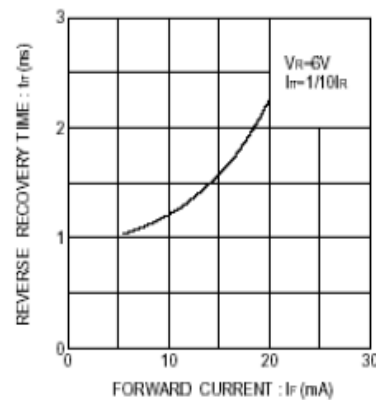


Fig. 4 Reverse recovery time characteristics

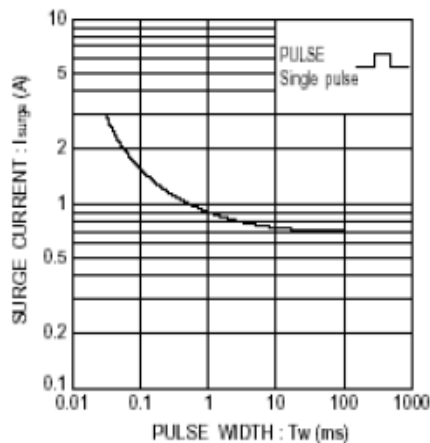


Fig. 5 Surge current characteristics

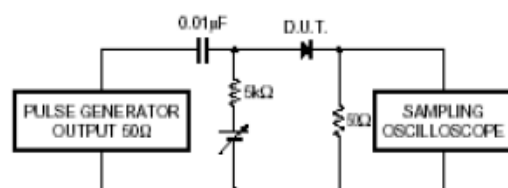


Fig. 6 Reverse recovery time ( $t_r$ ) measurement circuit



# 1SS133

## *Silicon Epitaxial Planar Switching Diode*

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### Ordering Information

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

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