

**DESCRIPTION**

The 1SS333 & 1SS333T are available in DO-34 and DO-35 Package

FEATURE

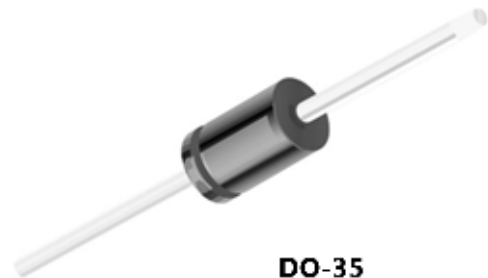
- Glass sealed envelope
- High speed
- High reliability

MECHANICAL DATA

- CASE: DO-34 、 DO-35
- High-speed switching
- Polarity: Color band denotes cathode

ORDERING INFORMATION

Package Type	Part Number
DO-34	1SS133
DO-35	1SS133T
SPQ	500 pcs / Bag
AiT provides all RoHS Compliant Products	

PIN DESCRIPTION**DO-34****DO-35**



ABSOLUTE MAXIMUM RATINGS

$T_a = 25^{\circ}\text{C}$, unless otherwise specified.

V_{RM} , Peak Reverse Voltage	90 V
V_R , DC Reverse Voltage	80 V
$I_{F(AV)}$, Average Rectified Forward Current	130 mA
I_{FM} , Peak Forward Current	400 mA
I_{FSM} , Surge Forward Current at $t < 1$ s	600 mA
P_{tot} , Power Dissipation	300 mW
T_j , Junction Temperature	175 $^{\circ}\text{C}$
T_{STG} , Storage Temperature Range	- 65 ~ + 175 $^{\circ}\text{C}$

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

$T_a = 25^{\circ}\text{C}$, unless otherwise specified.

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



TYPICAL CHARACTERISTICS

Fig 1. Forward Characteristics

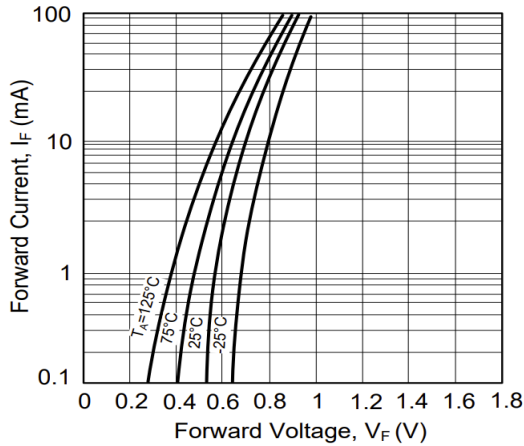


Fig 2. Reverse Characteristics

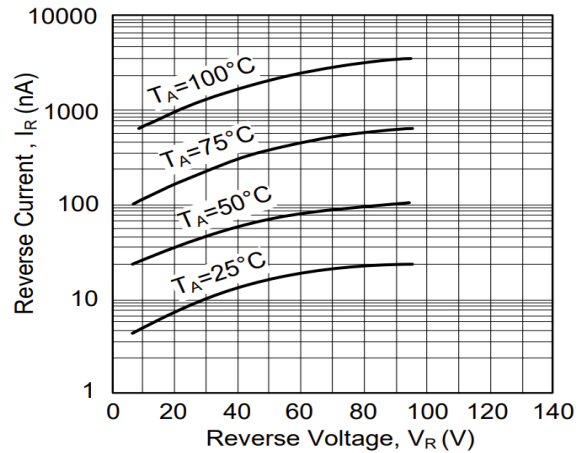


Fig 3. Capacitance Between Terminal Characteristics

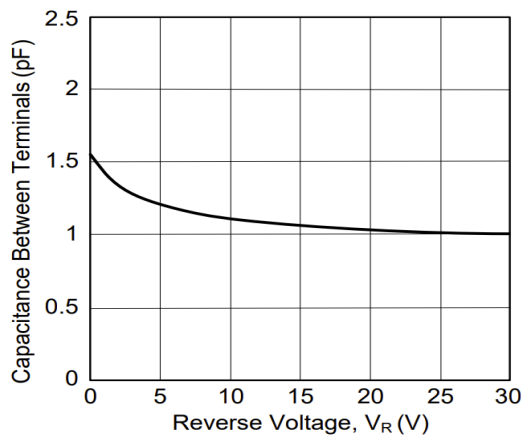


Fig 4. Reverse Recovery Time Characteristics

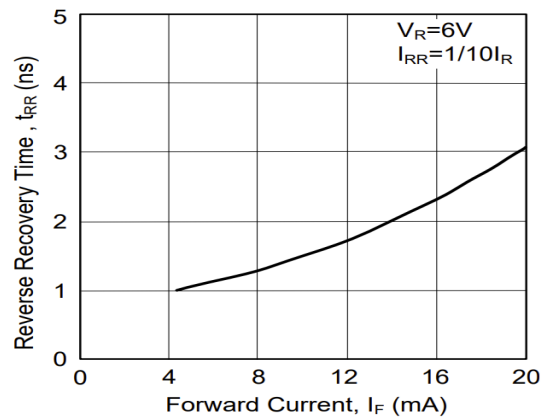


Fig 5. Surge current characteristics

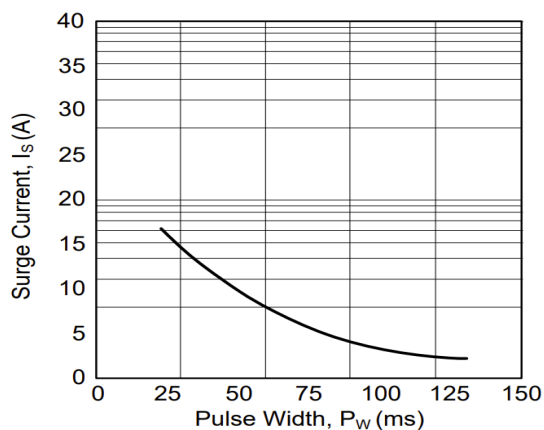
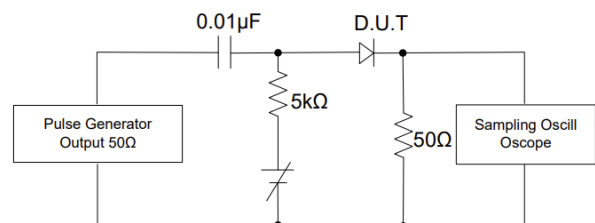


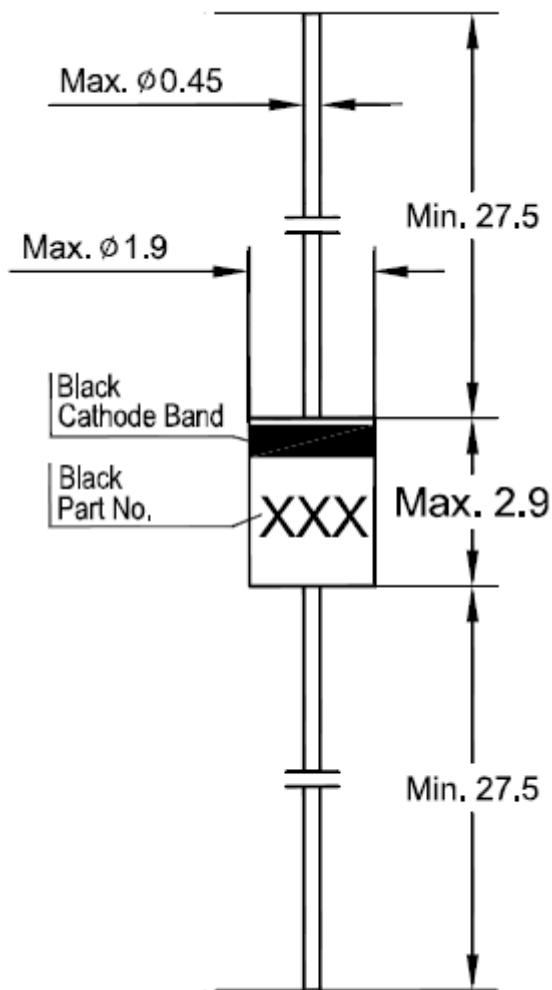
Fig 6. Reverse Recovery Time (t_{rr}) Measurement Circuit



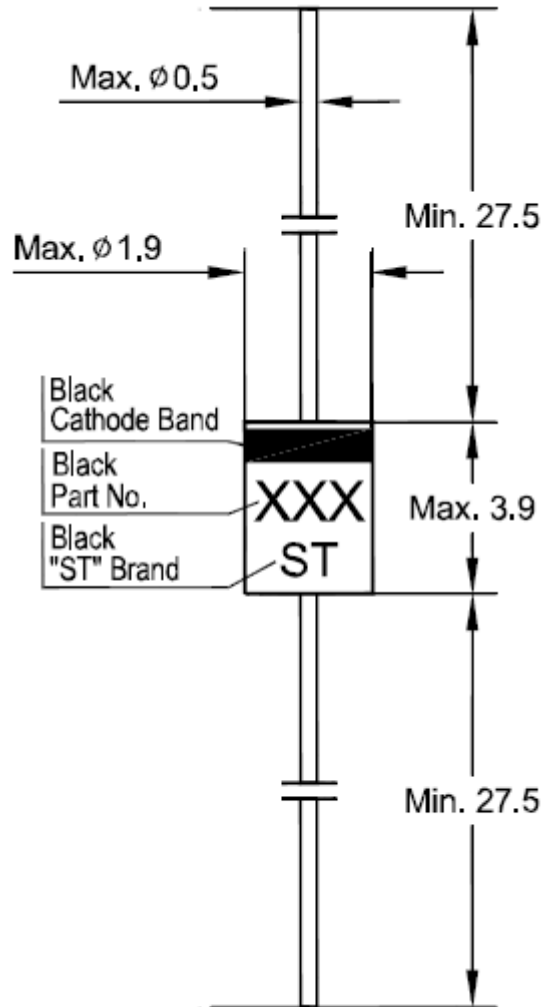


PACKAGE INFORMATION

Dimension in DO-34 Package (Unit: mm)



Dimension in DO-35 Package (Unit: mm)



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