



## DESCRIPTION

The 1SS355 is available in SOD-323 package

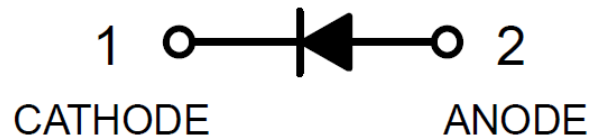
## FEATURES

- High Speed Switching Device ( $T_{RR} < 4.0nS$ )
- General Purpose Diodes
- Surface Device Type Mounting
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Available in SOD-323 package

## ORDERING INFORMATION

Package Type	Part Number
SOD-323	1SS355
Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products	

## PIN DESCRIPTION





## ABSOLUTE MAXIMUM RATINGS

T<sub>A</sub> = 25°C unless otherwise noted

V <sub>R</sub> , Reverse Voltage	80V
V <sub>RM</sub> , Repetitive Peak Reverse Voltage	90V
I <sub>FM</sub> , Forward Current	250mA
I <sub>O</sub> , Continuous Forward Current	150mA
I <sub>FRM</sub> , Repetitive Peak Forward Current	500mA
I <sub>FSM</sub> , Peak Forward Surge Current (Pulse Width=1us)	2A
P <sub>D</sub> , Power Dissipation	200mW
T <sub>J</sub> , Operating Junction Temperature	+150°C
T <sub>STG</sub> , Storage Temperature Range	-65°C~+150°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<sub>A</sub> = 25°C, unless otherwise noted

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	B <sub>V</sub>	I <sub>R</sub> =100μA	80	-	-	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =80V	-	-	100	nA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =100mA	-	-	1.2	V
Reverse Recovery Time	t <sub>rr</sub>	V <sub>R</sub> =6V, I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω	-	-	4	ns
Capacitance	C	V <sub>R</sub> =0.5V, f=1MHz	-	-	4	pF



## TYPICAL CHARACTERISTICS

Figure 1. Total Capacitance

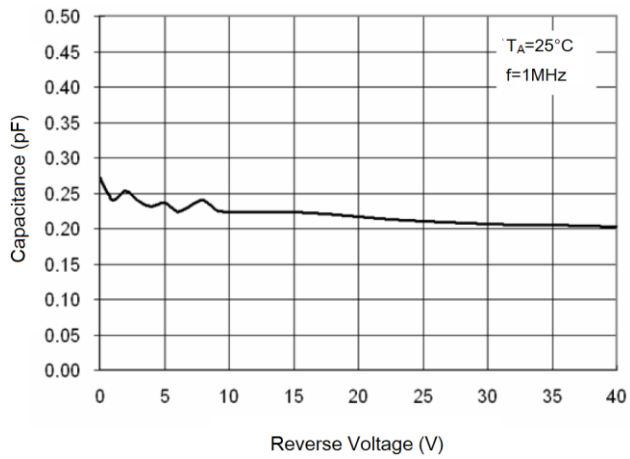


Figure 2. Forward Voltage vs Ambient Temperature

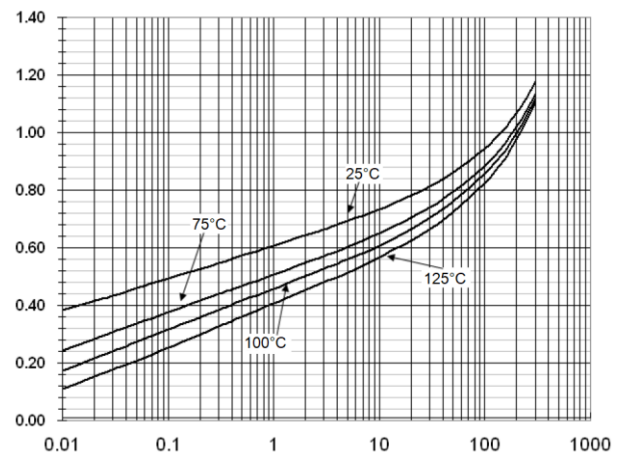


Figure 3. Power Derating Curve

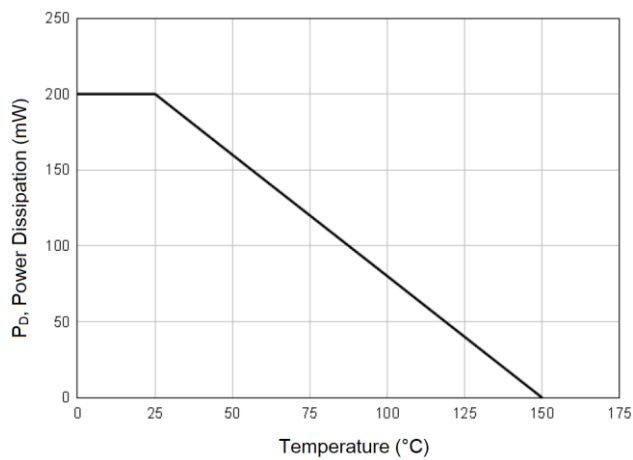
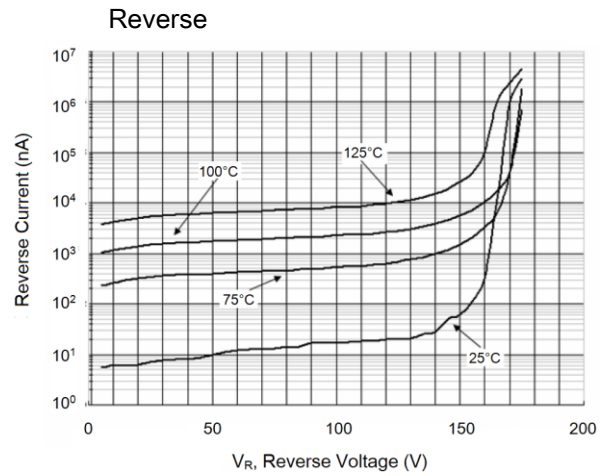


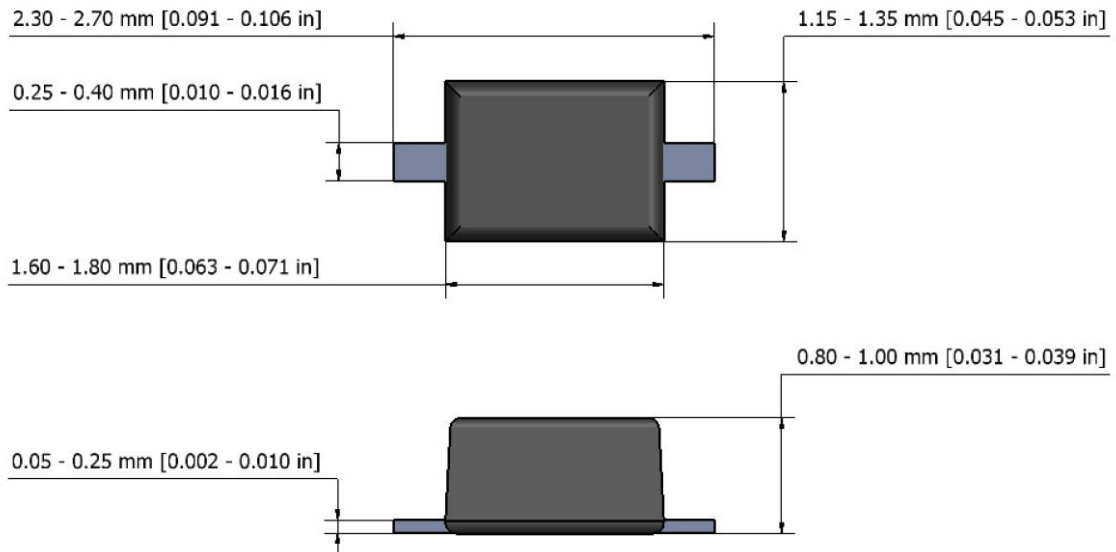
Figure 4. Reverse Current vs Reverse Voltage





## PACKAGE INFORMATION

Dimension in SOD-323 (Unit: mm)





## IMPORTANT NOTICE

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