



A Product Line of Diodes Incorporated

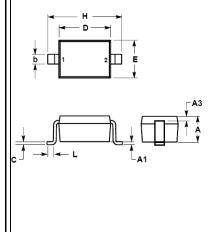
LITE-ON SEMICONDUCTOR 1SS355(LS)

SURFACE MOUNT FAST SWITCHING DIODE REVERSE VOLTAGE – 80 Volts FORWARD CURRENT – 0.1 Ampere FEATURES SOD-323 • Fast switching speed SOD-322 • Lead-Free Finish; RoHS Compliant (Notes 1 & 2) Dim. Min.

Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package: SOD-323 Plastic
- Package material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture sensitivity: Level 1 per J-STD-020D



SOD-323					
Dim.	Min.	Max.			
A	0.80	1.00			
A1	0.00	0.10			
A3	0.15 REF				
В	0.25	0.40			
С	0.089	0.177			
D	1.60	1.80			
Е	1.15	1.35			
L	0.08				
Н	2.30	2.70			
Dimen	Dimensions in millimeter				

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1SS355	Units
Non-Repetitive Peak Reverse Voltage	V _{RM}	90	V
DC Blocking Voltage	VR	80	V
Forward Continuous Current	IFM	225	mA
Average Rectified Output Current	lo	100	mA
Peak Forward Surge Current @t=1s	I _{FSM}	0.5	Α
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	1SS355	Units
Maximum Forward Voltage	I _F = 100mA	VF	1.2	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 80V	I _R	0.1	uA
Maximum Total Capacitance	V _R =0V,f=1MHz	Ст	3	pF
Characteristic	Test Condition	Symbol	МАХ	Units
Reverse Recovery time	$V_R=6V$, $I_R=I_F=10mA$ $R_L=100\Omega$	t _{rr}	4	ns

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

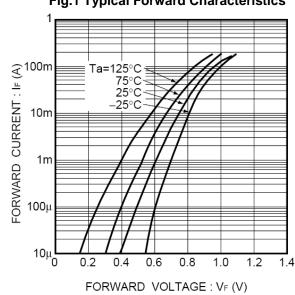
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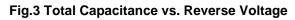


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LITE-ON SEMICONDUCTOR

Fig.1 Typical Forward Characteristics





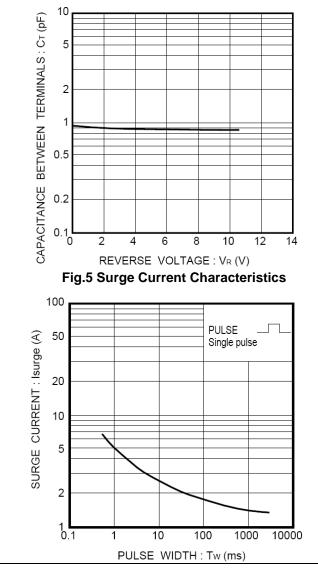


Fig.2 Typical Reverse Characteristics

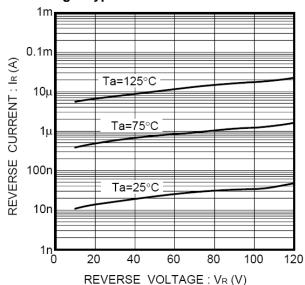
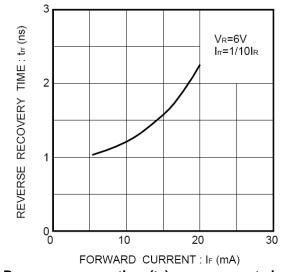
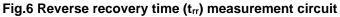
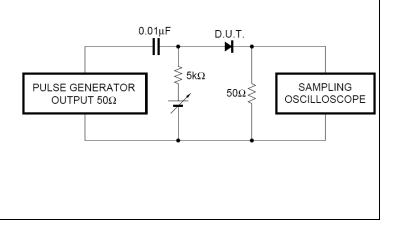


Fig.4 Reverse Recovery Time vs. Forward Current









Ordering Information:

	Part Number	Baakaga	Pa	cking
	Part Number	Package	Qty.	Carrier
	1SS355-7	SOD-323	3000pcs	Tape & Reel
arking Infor	mation:			
	5		Product Typ Marking Coc	
Device P/N	Marking Code		Marking Coo	



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