

SURFACE MOUNT FAST SWITCHING DIODE

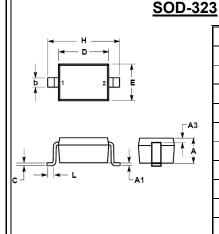
REVERSE VOLTAGE – 80 Volts FORWARD CURRENT – 0.1 Ampere

FEATURES

- · Fast switching speed
- Low reverse leakage current

MECHANICAL DATA

- Case: SOD-323 Plastic
- Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant



SOD-323					
Dim.	Min. Max				
Α	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			
E	1.15	1.35			
L	0.08				
Н	2.30	2.70			
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	V _R	80	V
Forward Continuous Current	I _{FM}	225	mA
Average Rectified Output Current	I _O	100	mA
Peak Forward Surge Current @t=1s	I _{FSM}	0.5	Α
Junction Temperature	TJ	150	$^{\circ}\!\mathbb{C}$
Storage Temperature Range	T _{STG}	-55~+150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	1SS355	Unit
Maximum Forward Voltage	I _F = 100mA	V _F	1.2	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 80V	I _R	0.1	uA
Typical Diode Capacitance	V _R =0V,f=1MHz	C _D	3	pF
Reverse Recovery time	V_R =6V, I_R = I_F =10mA R_L =100 Ω	trr	4	ns

REV. 3, Jul-2013, KSYR12

RATING AND CHARACTERISTIC CURVES 1SS355



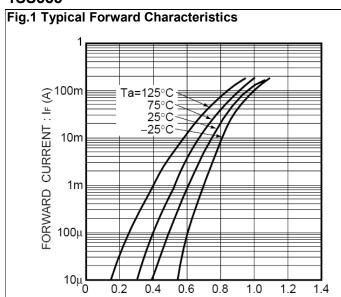
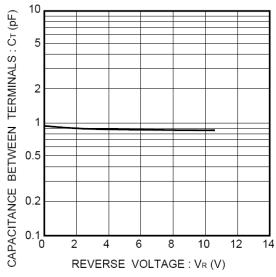


Fig.3 Total Capacitance vs. Reverse Voltage



FORWARD VOLTAGE: VF (V)

Fig.5 Surge Current Characteristics

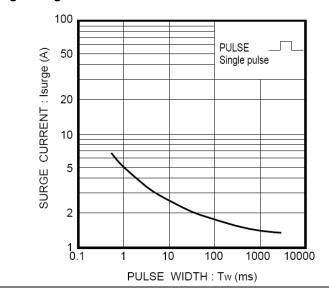


Fig.2 Typical Reverse Characteristics

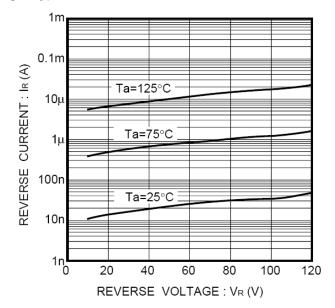


Fig.4 Reverse Recovery Time vs. Forward Current

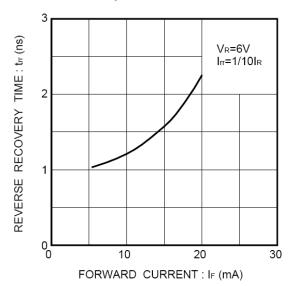
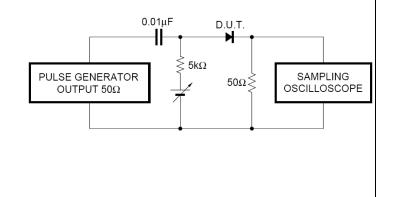


Fig.6 Reverse recovery time (trr) measurement circuit



Device Marking:



Device Marking :		LITEON
Device P/N	Marking code	Equivalent Circuit Diagram
1SS355	5D	1 0



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New Marking Rule Notification

Range: In order to have well management in process control, the new marking rule is applied to small signal device including Switching Diode, Transistor and Schottky Diode.

Package: SOD-123 / SOD-323 / SOD-523

