

Switching diode

- Applications
 High speed switching
- Features
- 1) Small surface mounting type.
- 2) High Speed.(trr =1.2ns Typ.)
- 3) High reliability with high surge current handling capability.
- 4) We declare that the material of product compliance with RoHS requirements.
- Construction
 Silicon epitaxial planar

• Device Marking and Ordering Information

Device	Marking	Shipping
L1SS355T1G	5D	3000/Tape&Reel
L1SS355T3G	5D	10000/Tape&Reel

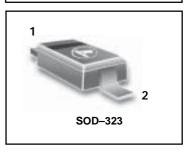
• Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Peak reverse voltage	V _{RM}	90	V	
DC reverse voltage	Vr	80	V	
Peak forward current	Іғм	225	mA	
Mean rectifying current	lo	100	mA	
Surge current (1s)	Isurge	500	mA	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	<i>−</i> 55~+125	°C	

• Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditons
Forward voltage	VF	-	-	1.2	V	I=100mA
Reverse current	IR	_	_	0.1	μΑ	V _R =80V
Capacitance between terminals	Ст	_	_	3.0	pF	V _R =0.5V, f=1MHz
Reverse recovery time	trr	-	_	4	ns	VR=6V, IF=10mA, RL=100Ω

L1SS355T1G

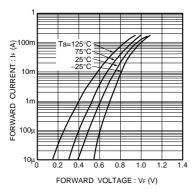


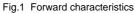




L1SS355T1G

• Electrical characteristic curves (Ta=25°C)





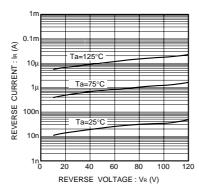


Fig.2 Reverse characteristics

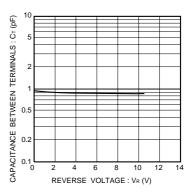


Fig.3 Capacitance between terminals characteristics

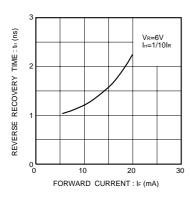


Fig.4 Reverse recovery time characteristics

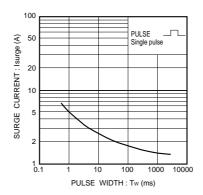


Fig.5 Surge current characteristics

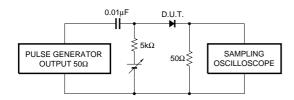
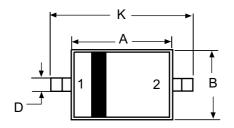


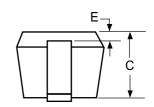
Fig.6 Reverse recovery time (trr) measurement circuit

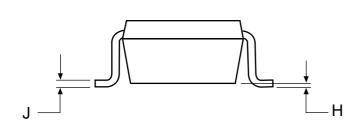


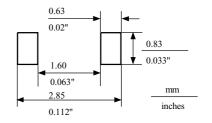
L1SS355T1G

SOD-323









NOTES:

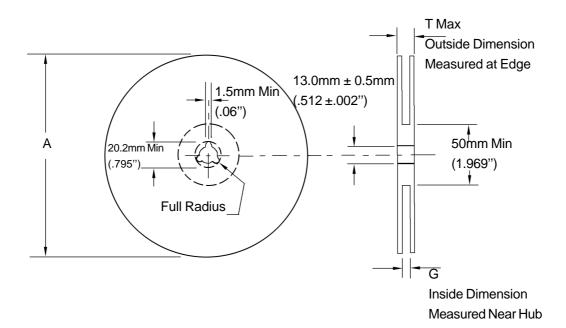
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS

DIM	MILLI	METERS	IN	INCHES	
	MIN	MAX	MIN	MAX	
Α	1.60	1.80	0.063	0.071	
В	1.15	1.35	0.045	0.053	
С	0.80	1.00	0.031	0.039	
D	0.25	0.40	0.010	0.016	
E	0.15	REF	0.006	REF	
н	0.00	0.10	0.000	0.004	
J	0.089	0.177	0.0035	0.0070	
K	2.30	2.70	0.091	0.106	

PIN:1:CATHODE 2:ANODE



EMBOSSED TAPE AND REEL DATA FOR DISCRETES



Size	A Max	G	T Max
8 mm	330mm	8.4mm+1.5mm, -0.0	14.4mm
	(12.992")	(.33"+.059", -0.00)	(.56")

Reel Dimensions

Metric Dimensions Govern — English are in parentheses for reference only

Storage Conditions

Temperature: 5 to 40 Deg.C (20 to 30 Deg. C is preferred) Humidity: 30 to 80 RH (40 to 60 is preferred)

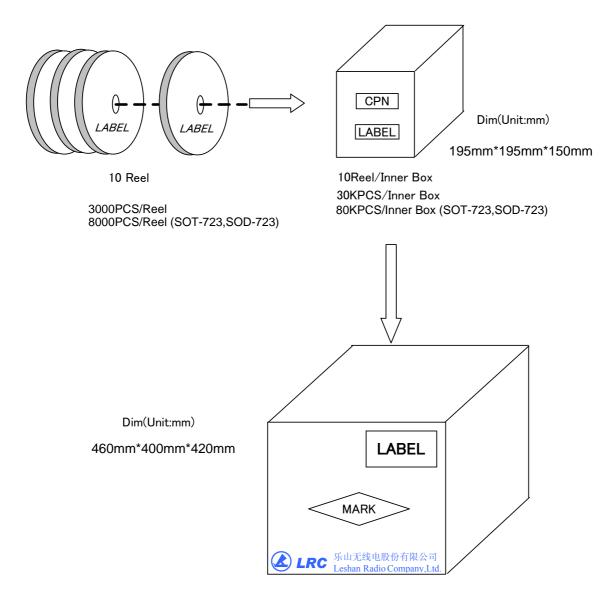
Recommended Period: One year after manufacturing

(This recommended period is for the soldering condition only. The characteristics and reliabilities of the products are not restricted to

this limitation)



Shipment Specification



12 Inner Box/Carton

360KPCS/Carton 960KPCS/Carton (SOT-723,SOD-723)