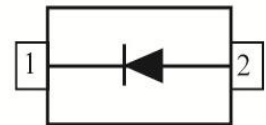
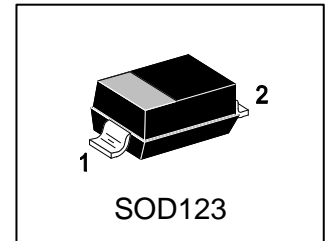


L1N4148WT1G

S-L1N4148WT1G

SURFACE MOUNT SWITCHING DIODE



1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
L1N4148WT1G	T4	3000/Tape&Reel
L1N4148WT3G	T4	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage	VRRM	100	V
Working Peak Reverse Voltage	VRWM		
DC Reverse Voltage	VR		
RMS Reverse Voltage	VR(RMS)	53	V
Repetitive Peak Forward Current	IFM	500	mA
Average Rectified Output Current	IO	200	mA
Non-Repetitive Peak Forward Surge Current	IFSM		A
t=1μs		2	
t=1s		1	

4. THERMAL CHARACTERISTICS

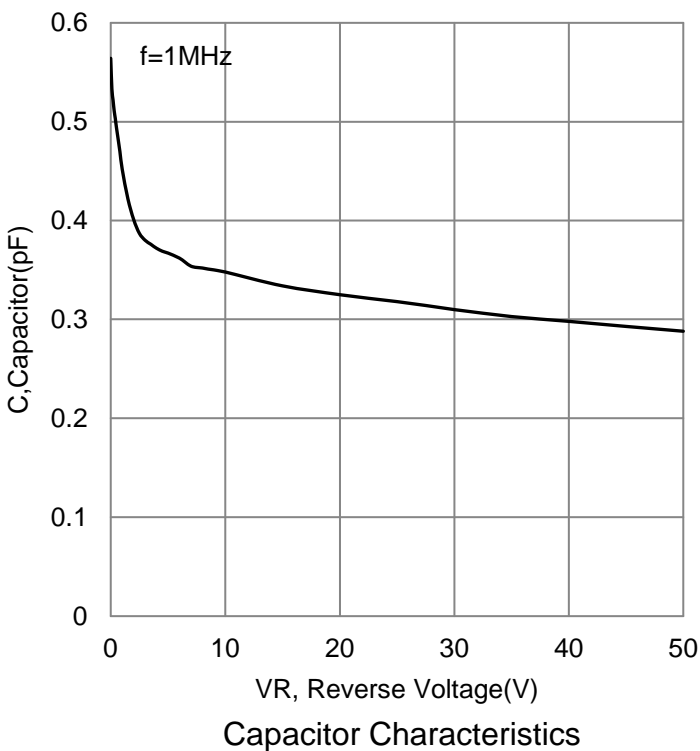
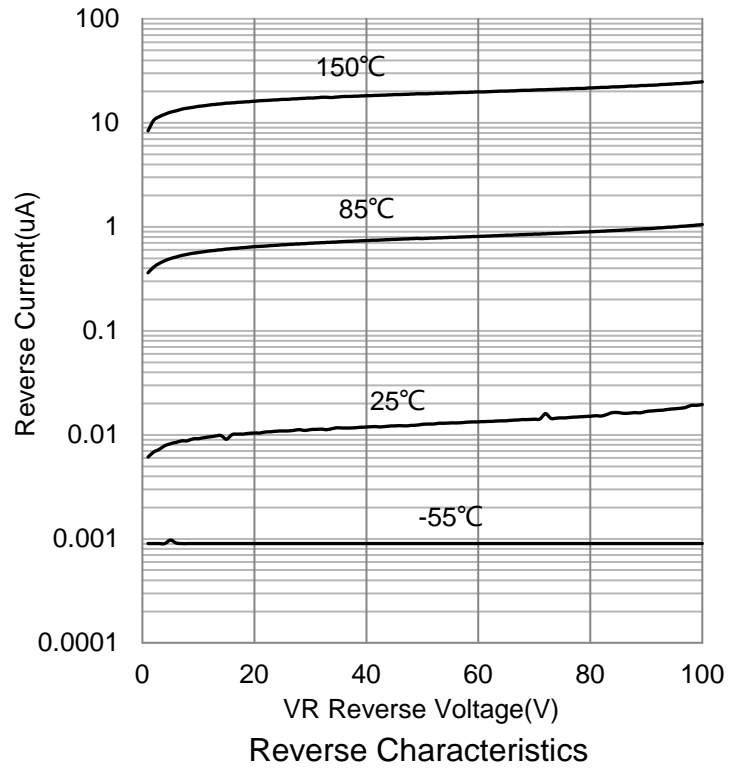
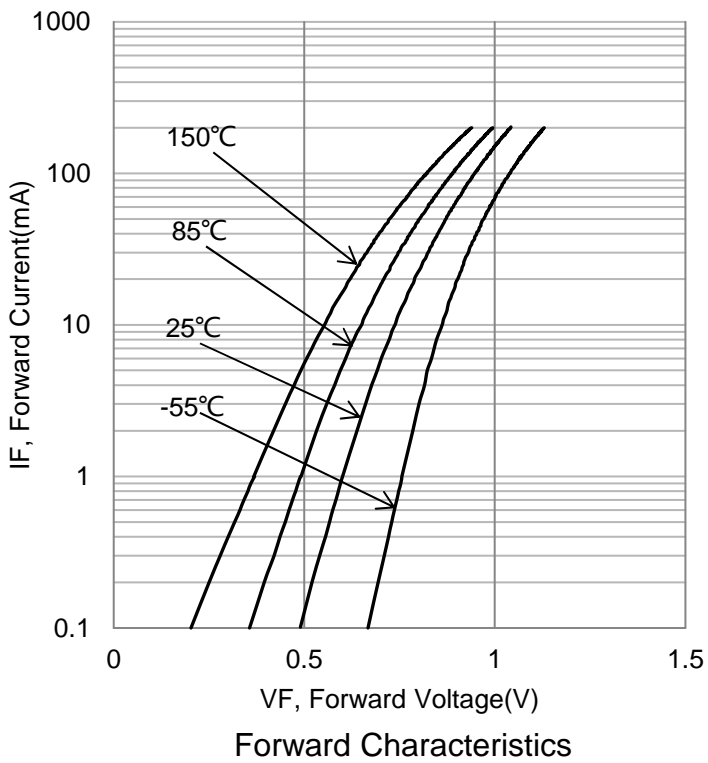
Parameter	Symbol	Limits	Unit
Power Dissipation (Note 1)	PD	425	mW
Thermal Resistance	RθJA	290	°C/W
	RθJC	200	°C/W
Junction and Storage temperature	TJ, Tstg	-65 ~ +150	°C

1. Valid provided that terminals are kept at ambient temperature.

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR)=100μA)	VBR	100	-	-	V
Forward Voltage (IF = 1.0 mA) (IF = 10 mA) (IF = 50 mA) (IF = 150 mA)	VF	- - - -	- - - -	715 855 1000 1250	mV
Reverse Voltage Leakage Current (VR = 75V) (VR = 75V, TJ = 150°C) (VR = 25V, TJ = 150°C) (VR = 20V)	IR	- - - -	- - - -	2.5 50 30 0.025	μA
Diode Capacitance (VR = 0V, f = 1.0 MHz)	CD	-	-	2.0	pF
Reverse Recovery Time (IF=IR=10mA,Irr=0.1×IR,RL =100Ω)	trr	-	-	4.0	ns

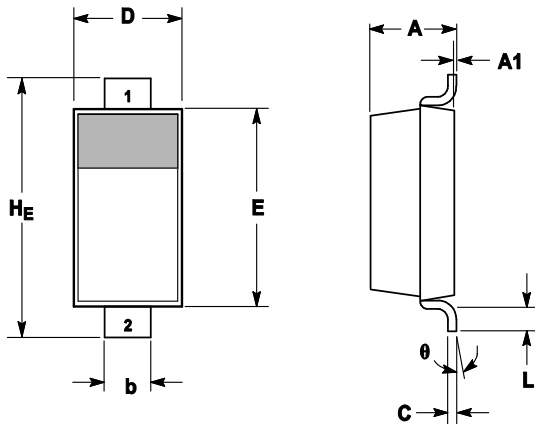
6. ELECTRICAL CHARACTERISTICS CURVES



7. OUTLINE AND DIMENSIONS

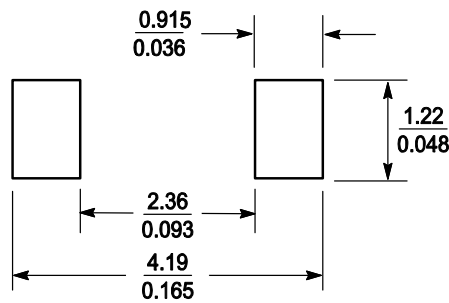
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.94	1.17	1.35	0.037	0.046	0.053
A1	0.00	0.05	0.10	0.000	0.002	0.004
b	0.51	0.61	0.71	0.020	0.024	0.028
c	---	---	0.15	---	---	0.006
D	1.40	1.60	1.80	0.055	0.063	0.071
E	2.54	2.69	2.84	0.100	0.106	0.112
HE	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---
θ	0°	---	10°	0°	---	10°

8. SOLDERING FOOTPRINT



SCALE 10:1 (mm/inches)

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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