

SURFACE MOUNT SWITCHING DIODE

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Pb-Free package is available

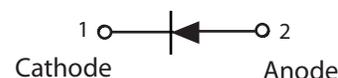
Mechanical Data

- Case: SOD-123FL, Molded Plastic
- Approx. Weight: 15mg 0.00053oz
- Type Code: T4

L1N4148FT1G



Equivalent Circuit Diagram



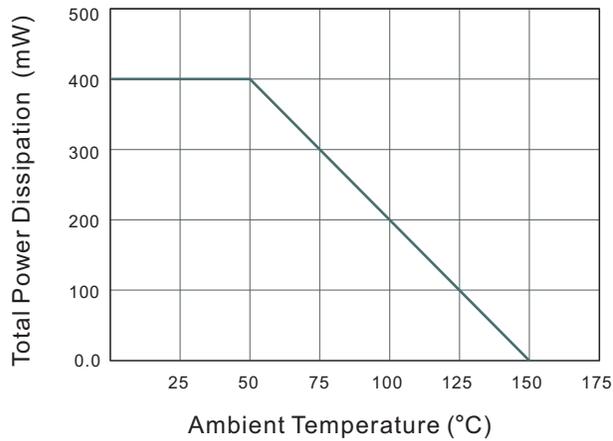
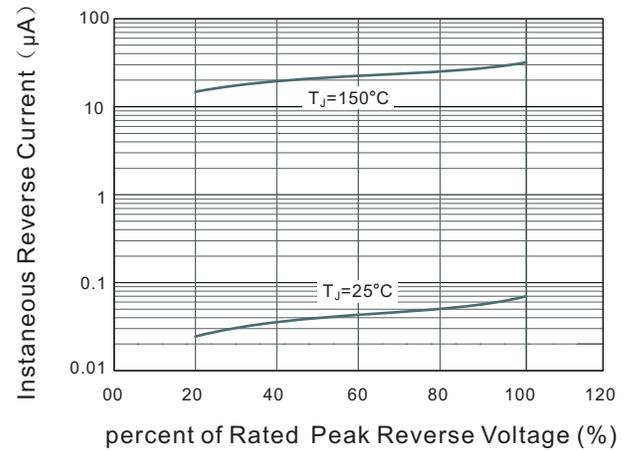
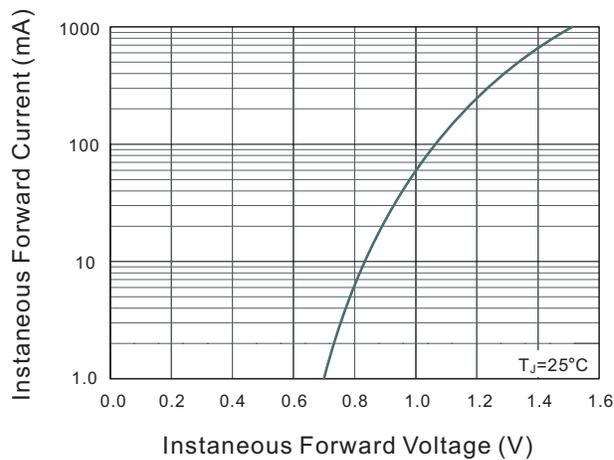
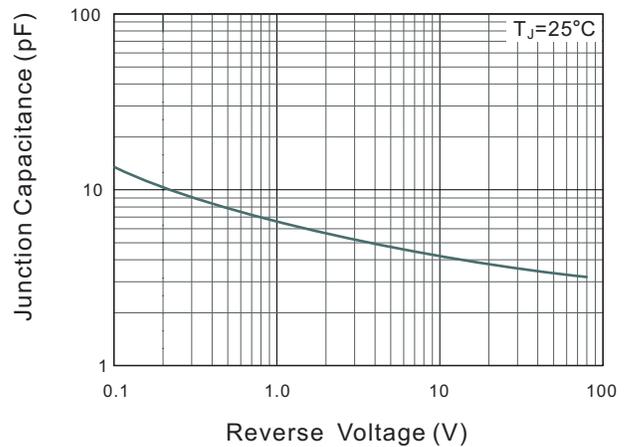
Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	L1N4148FT1G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS voltage	V _{RMS}	75	V
Continuous Forward Current	I _F	150	mA
Non-repetitive Peak Forward Surge Current at 1ms	I _{FSM}	4	A
Total Power Dissipation	P _{tot}	400	mW
Operating and Storage Temperature Range	T _J , T _{stg}	-55 ~ +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

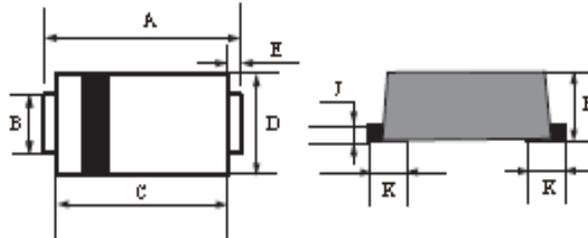
Characteristic	Symbol	L1N4148FT1G	Unit
Reverse Breakdown Voltage at I _R =1μA	V _{(BR)R}	75	V
Maximum Forward Voltage at 1 mA at 10 mA at 50 mA at 150 mA	V _F	0.715 0.855 1.00 1.25	V
Peak Reverse Current at V _R =20V T _j =25°C at V _R =75V T _j =25°C at V _R =25V T _j =150°C at V _R =75V T _j =150°C	I _R	0.025 1 30 50	μA
Typical Junction Capacitance	C _j	5	pF
Maximum Reverse Recovery Time	t _{rr} Typical	8	ns

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Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

Fig.3 Typical Instantaneous Forward Characteristics

Fig.4 Typical Junction Capacitance


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SOD-123FL Outline Dimensions



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.5	3.9	0.138	0.159
B	0.75	1.1	0.029	0.037
C	2.6	3.0	0.103	0.119
D	1.6	2.0	0.063	0.079
E	0.45Typ		0.018Typ	
H	0.9	1.2	0.036	0.047
J	0.12	0.22	0.005	0.009
K	0.8Typ		0.032Typ	