High Speed Switching Diode

Features

- V_R 80V
- I_{FAV} 150mA

Typical Applications

• Extreme fast switches

Mechanical Data

- Package: SOD323
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Epoxy meets UL-94 V-0 flammability rating, halogen-free
- Polarity: Cathode line denotes the cathode end
- Marking: A1

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V _{RRM}	V		80
Peak forward surge current	I _{FSM}	А	t _p =1µs	2
Average forward current	I _{FAV}	mA		150
Power dissipation	P _D	mW		200
Thermal Resistance Junction to Ambient Air	R _{eJA}	°C/W		625
Junctiontemperature	Tj	°C		-55 to +150
Storage temperature range	T _{stg}	°C		-55 to +150

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	MIN	ТҮР	МАХ
Forward voltage	VF	V	I _F =100mA			1.2
Reverse current	IR1	nA	V _R =80V			100
Reverse current	IR2	uA	V _R =80V, T _a =125℃			1
Breakdown voltage	V _R	V	I _R =100µA	I _R =100µA 80		
Diode capacitance	CD	pF	V _R =0V, f =1MH _Z		4	5
Reverse recovery time	t _{rr}	ns	I_F =10mA,Irr=0.1 I_R ,RL=100 Ω		65	80

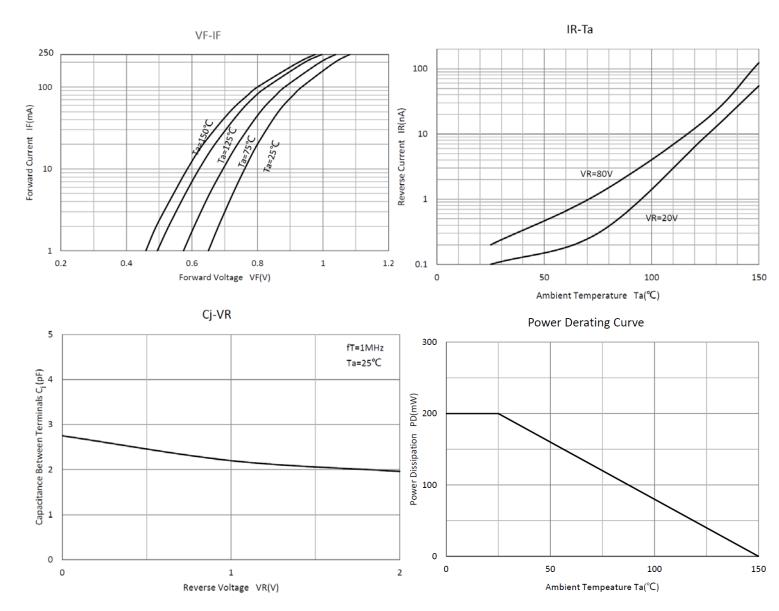


1N4148WSL

Ordering Information (Example)

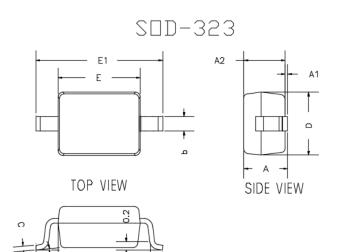
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4148WSL	F2	Approximate 0.004	3000	30000	120000	7" reel

Characteristics (Typical)





Outline Dimensions

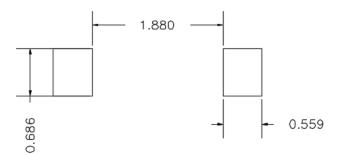


L1

		DIMENSIONS		
DIM	INC	HES	1	ЧМ
	MIN	MAX	MN	MAX
Α		0.0393		1.0000
A1	0.0000	0.0039	0.0000	D.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
с	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2,7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
0	0°	8*	0°	8*

SIDE VIEW

■Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

3/4



1N4148WSL

Disclaimer

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