



1N4148WSL

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 ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		80
Peak forward surge current	I_{FSM}	A	$t_p=1\mu s$	2
Average forward current	I_{FAV}	mA		150
Power dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient Air	R_{JA}	/W		625
Junction temperature	T_j			-55 to +150
Storage temperature range	T_{stg}			-55 to +150

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	Conditions	MIN	TYP	MAX
Forward voltage	V_F	V	$I_F=100mA$			1.2
Reverse current	I_{R1}	nA	$V_R=80V$			100
	I_{R2}	μA	$V_R=80V T_a=125$			1
Breakdown voltage	V_R	V	$I_R=100\mu A$	80		
Diode capacitance	C_D	pF	$V_R=0V, f=1MHz$		4	5

Reverse recovery time t_{rr} μs μs μs μs μs μs μs

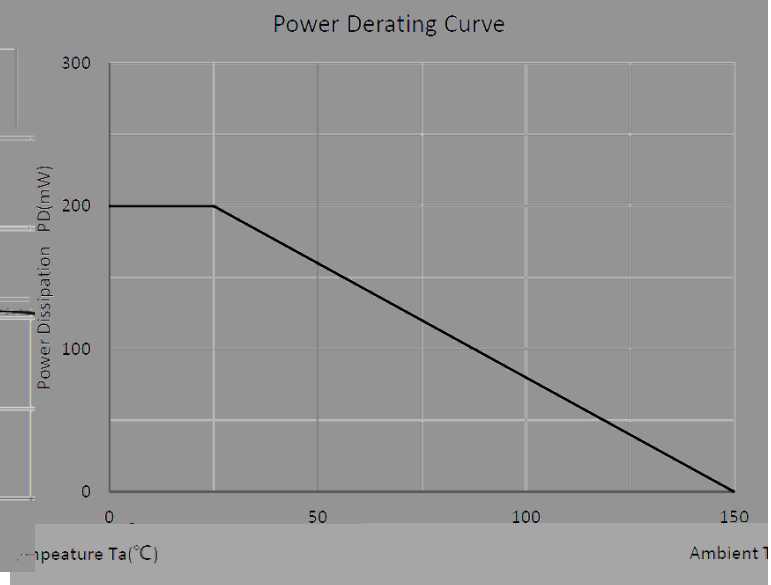
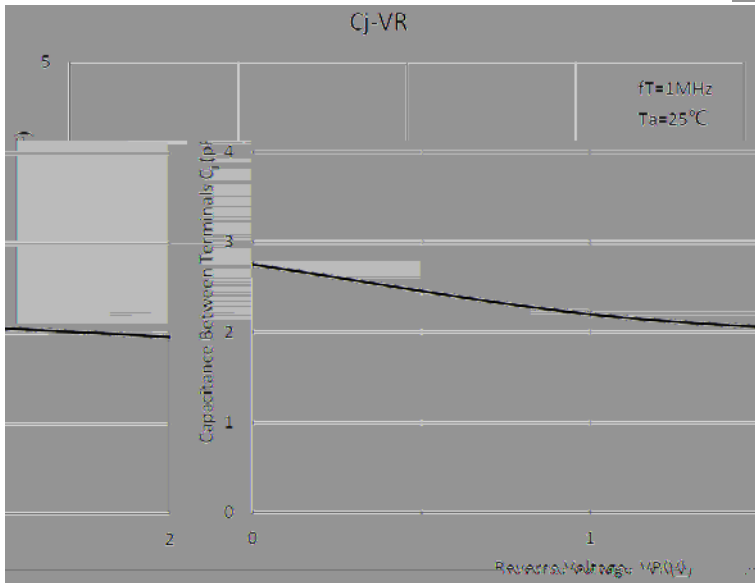
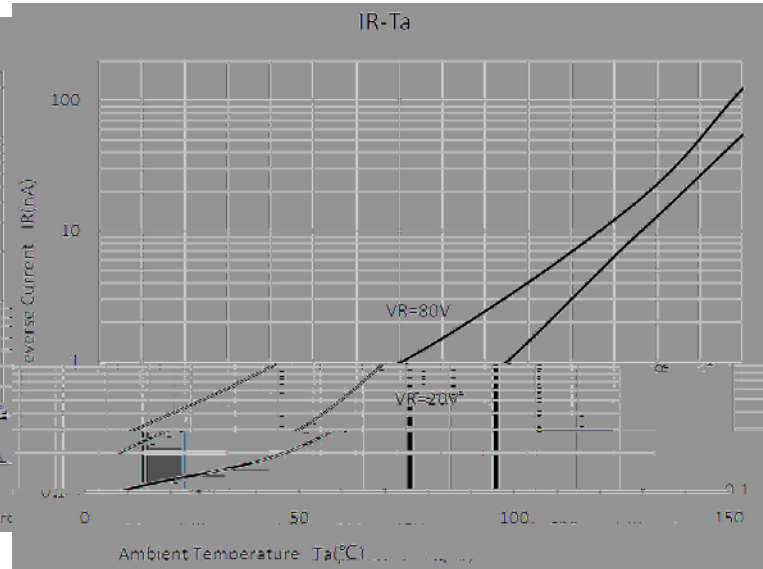
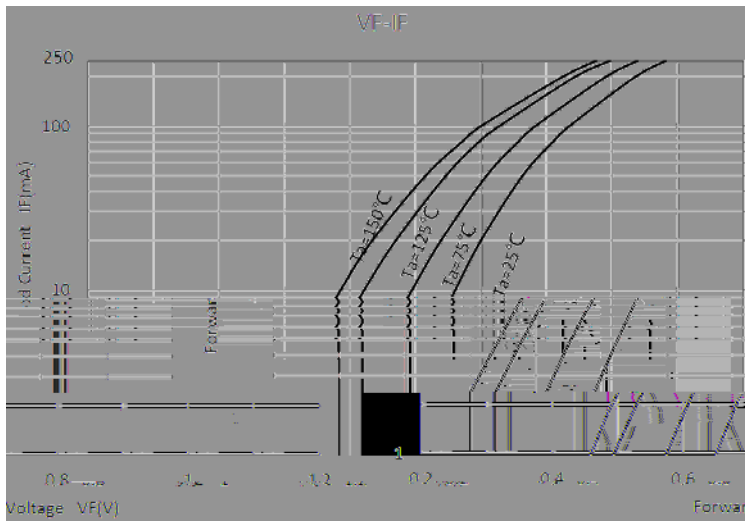


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Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4148WSL	F2	Approximate 0.0048	3000	30000	120000	7" reel

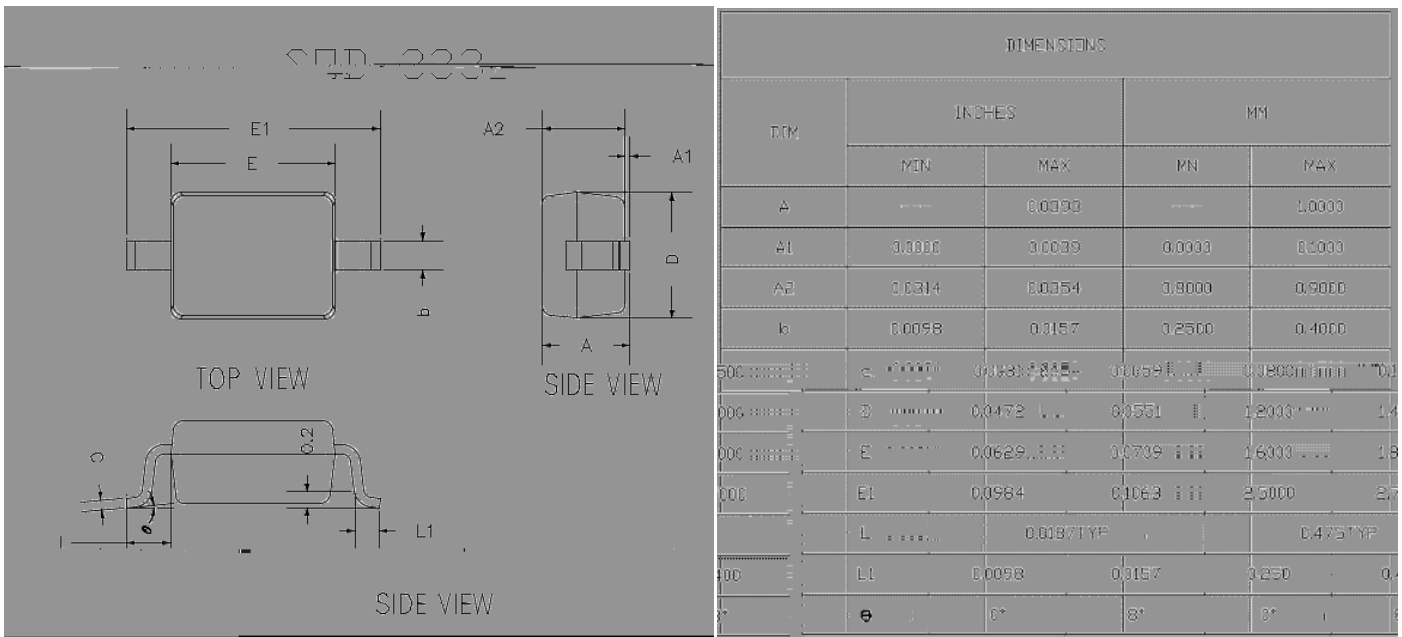
Characteristics (Typical)



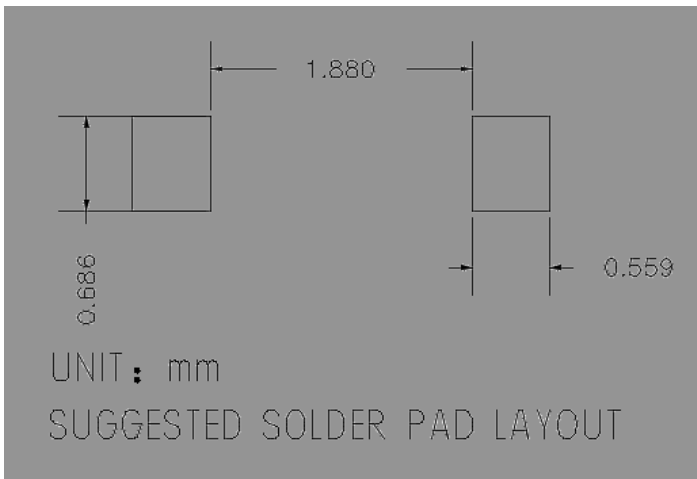


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Outline Dimensions



Soldering Footprint





Disclaimer

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