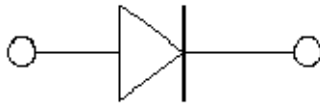


Small-Signal Fast Switching Diodes



Features

- V_R 75V
- I_{FAV} 150mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** T4

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Reverse voltage	V_R	V		75
Peak forward surge current	I_{FSM}	A	Pulse width=1 us Pulse width=1 s	2 0.5
Repetitive peak forward current	I_{FRM}	mA		300
Average forward current	I_{FAV}	mA		150
Power dissipation	P_D	mW		400
Maximum junction temperature	T_j	°C		-55 ~+150
Storage temperature range	T_{stg}	°C		-55 ~+150
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C/W		315

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

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=10\mu A$	100	
Forward Voltage	V_F	V	$I_F=10mA$ $I_F=100mA$		1.00 1.25
Reverse Leakage Current	I_{R1}	nA	$V_R=20V$		25
	I_{R2}	uA	$V_R=75V$		1
Capacitance	C	pF	$V_R=0V, f=1MHz$		4
Reverse Recovery Time	T_{RR}	ns	$I_F=10mA, V_R=6V, I_{rr}=1mA,$ $R_L=100\Omega$		4

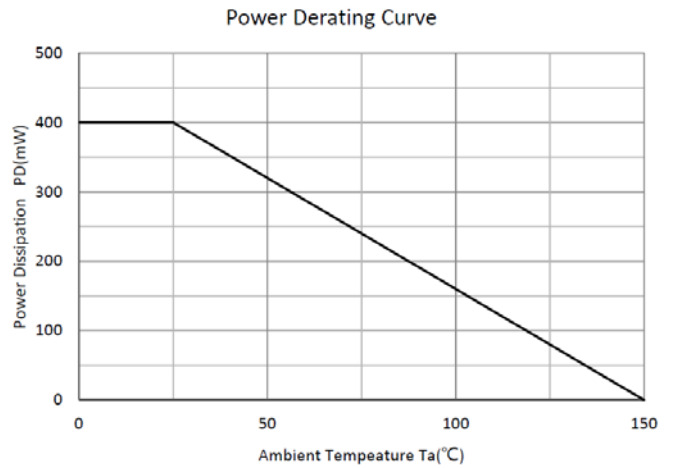
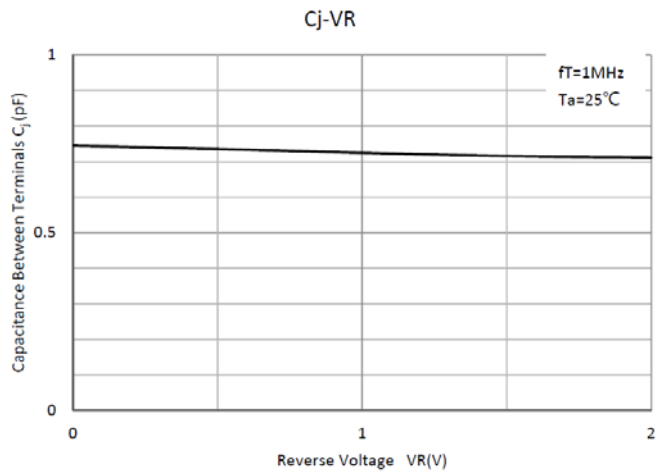
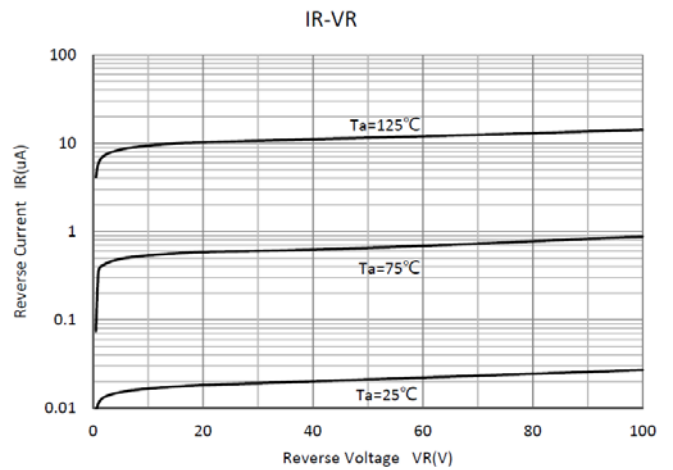
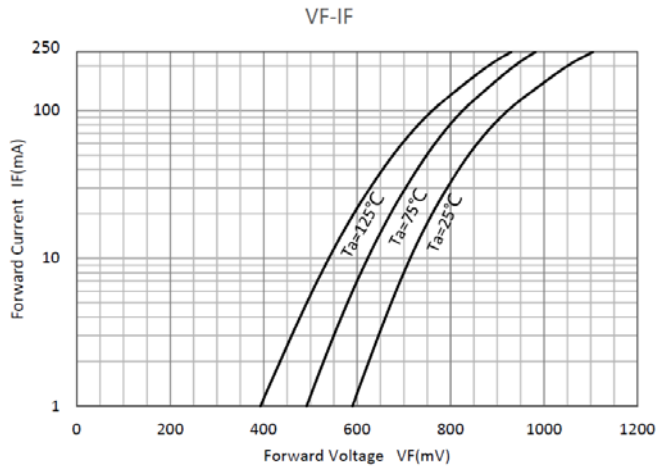


1N4148W

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4148W	F2	Approximate 0.011	3000	30000	120000	7" reel

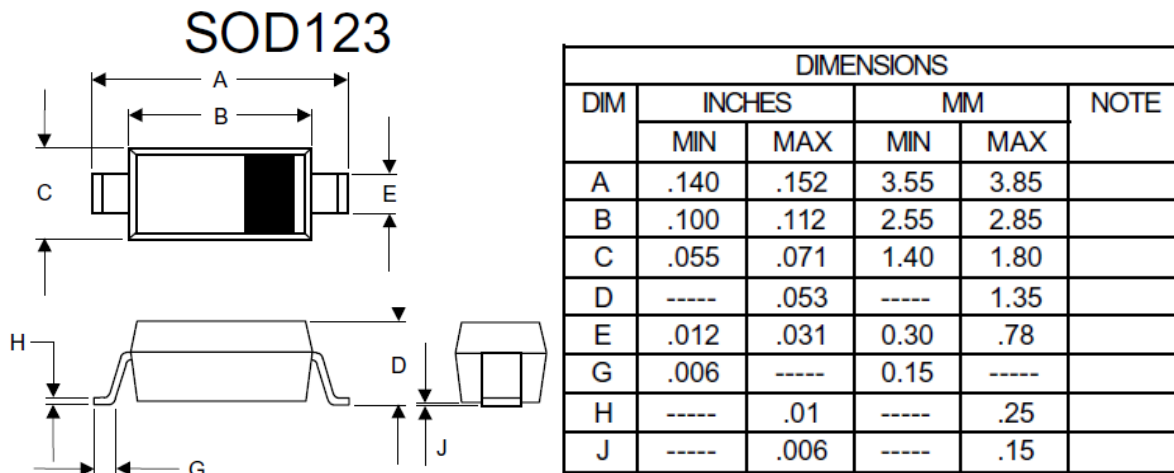
■ Characteristics (Typical)



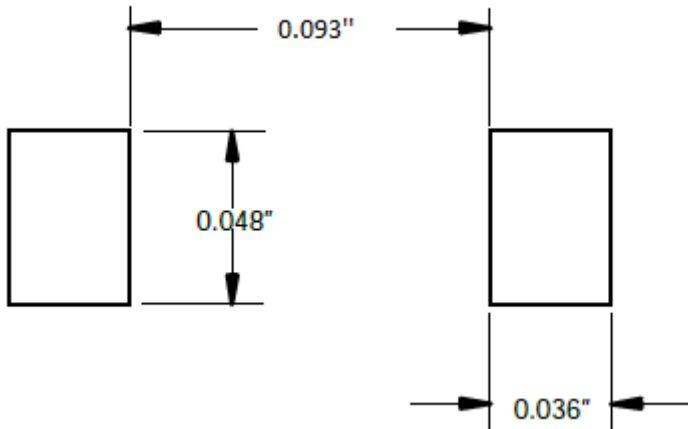


1N4148W

■ SOD-123 Package Outline Dimensions



■ SOD-123 Soldering Footprint



Unit: inch



1N4148W

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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