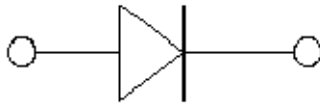


Small-Signal Fast Switching Diodes



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		-65 ~+150
Storage temperature range	T_{stg}	°C		-65 ~+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}	μA	$V_R=75V$		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

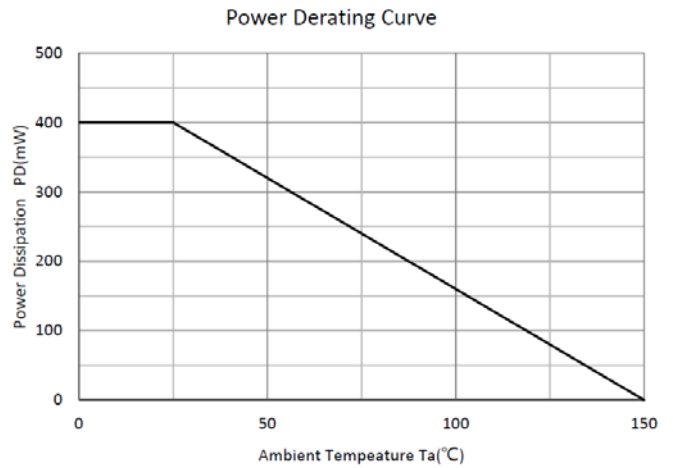
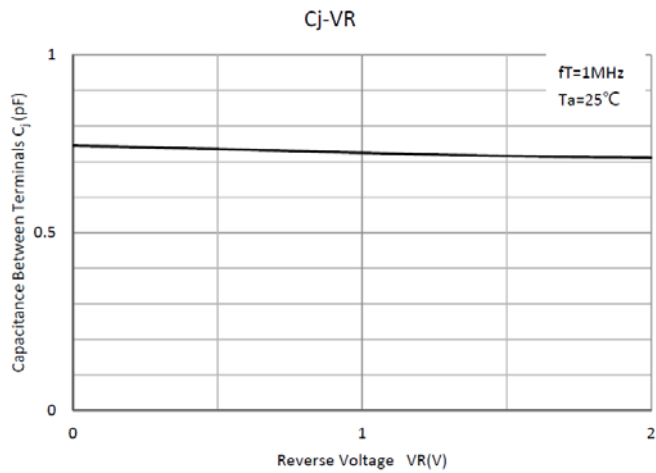
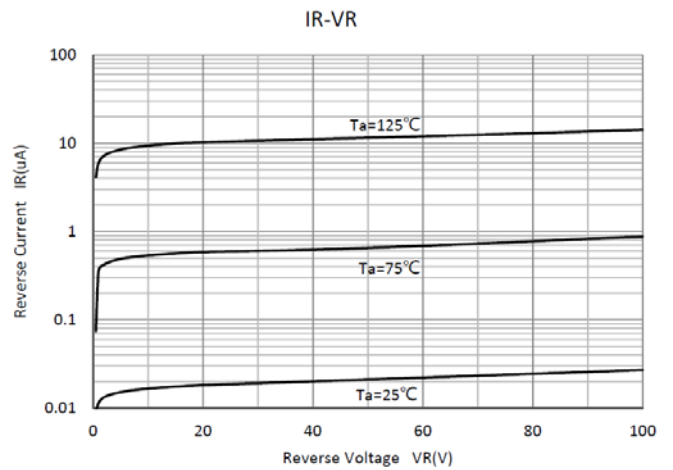
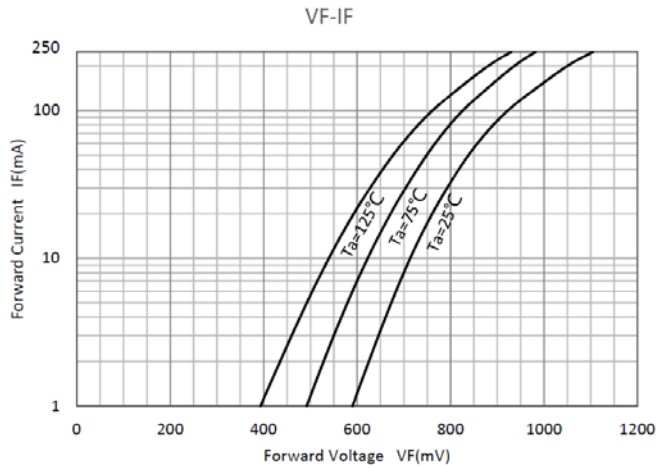


1N4148W

■ 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

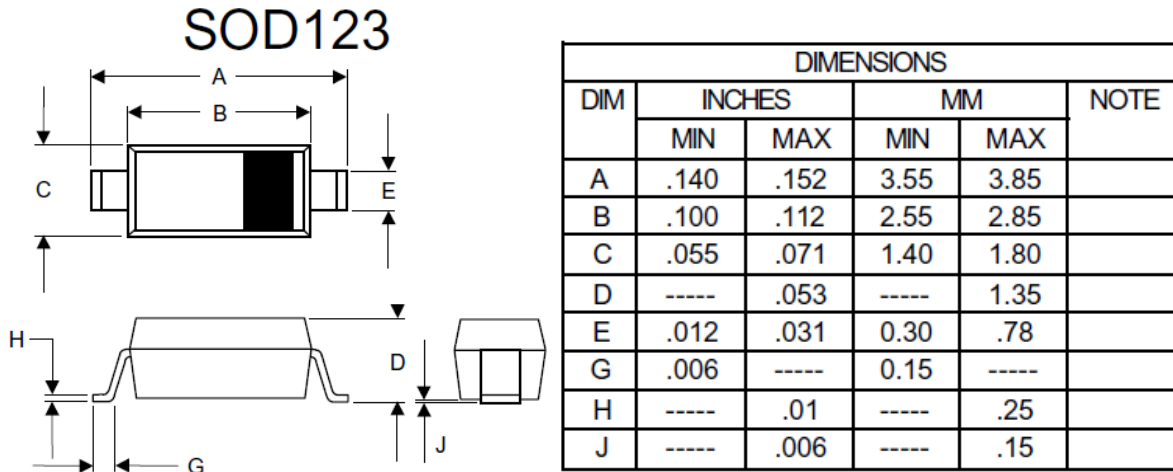
■ Characteristics (Typical)



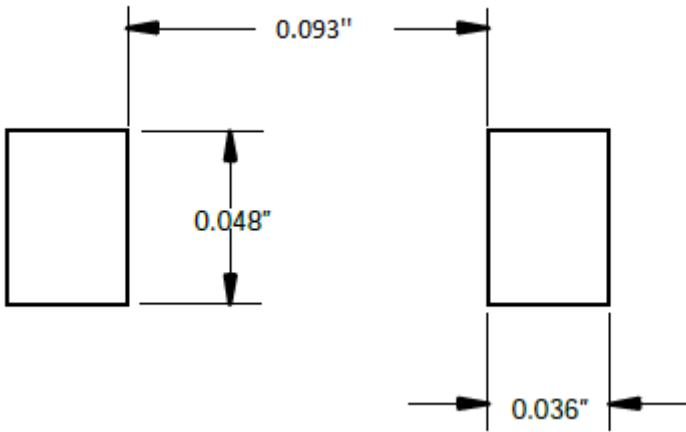


1N4148W

■ SOD-123 Package Outline Dimensions



■ SOD-123 Soldering Footprint



Unit: inch



1N4148W

Disclaimer

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