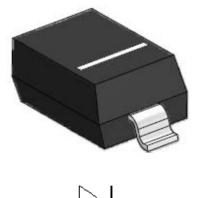
Small-Signal Fast Switching Diodes

Features



•VR 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}	А	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	Tj	°C		-55 ~+150
Storage temperature range	T _{stg}	°C		-55 ~+150
Thermal Resistance Junction to Ambient Air	Reja	°C/W		315

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

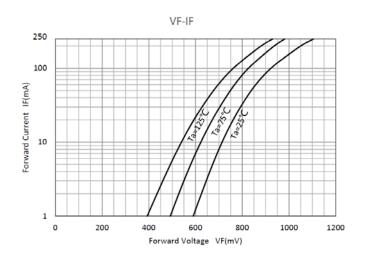
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V _R	V	I _R =10uA	100	
Forward Voltage	V _F	V	I _F =10mA I _F =100mA		1.00 1.25
Duran hadan Qurant	I _{R1}	nA	V _R =20V		25
Reverse Leakage Current	I _{R2}	uA	V _R =75V		1
Capacitance	С	pF	V _R =0V,f=1MHz		4
Reverse Recovery Time	T _{RR}	ns	$\begin{array}{l} I_{F}\text{=}10\text{mA}, \ V_{R}\text{=}6\text{V}, \ \text{Irr}\text{=}1\text{mA}, \\ R_{L}\text{=}100\Omega \end{array}$		4

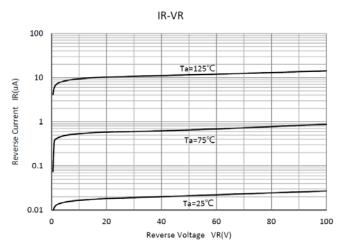


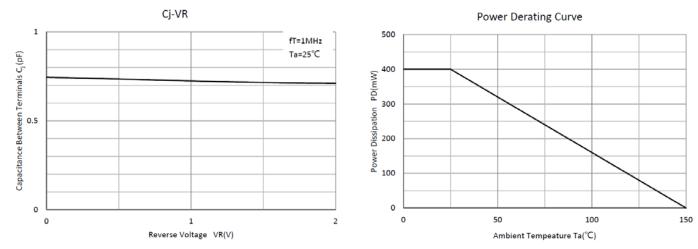
Ordering Information (Example)

PREFERED 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)



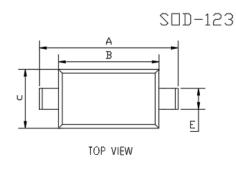


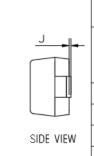


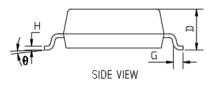
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Outline Dimensions

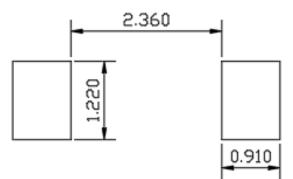






	DIMENSIONS						
	DIM	INC	HES	ММ			
		MIN	MAX	MN	MAX		
4	А	0.140	0.152	3.550	3.850		
	В	0.100	0.112	2.550	2.850		
IEW	С	0.055	0.071	1.400	1.800		
	D	0.037	0.053	0.950	1.350		
	E	0.020	0.028	0.510	0.710		
	G	0.006	0.018	0.150	0.450		
	н	0.003	0.010	0.080	0.250		
	J	0.000	0.006	0.000	0.150		
	θ	0	8°	0	8°		

Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

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1N4148W

Disclaimer

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