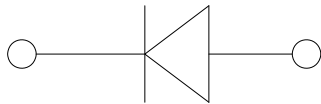
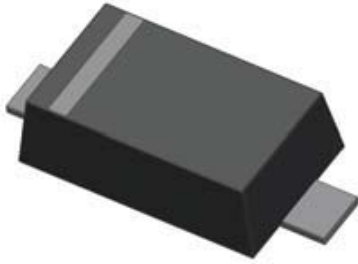


Small-Signal Fast Switching Diodes



Features

- VR 75V
- I_FAV 250mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** E2

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Non-Repetitive Peak Reverse Voltage	V _{RM}	V		100
Repetitive peak reverse voltage	V _{RRM}	V		75
Reverse voltage	V _R	V	I _R =100uA	75
Peak forward surge current	I _{FSM}	A	Pulse width=1 us Pulse width=1 s	2 0.5
Average forward current	I _{FAV}	mA		250
Power dissipation	P _{tot}	mW		150
Maximum junction temperature	T _j	°C		-55 to +150
Storage temperature range	T _{stg}	°C		-55 to +150

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

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V _R	V	I _R =5uA	75	
Forward Voltage	V _F	V	I _F =5mA	0.62	0.72
			I _F =10mA		0.855
			I _F =100mA		1.00
			I _F =150mA		1.25
Reverse Leakage Current	I _{R1}	nA	V _R =20V		25
	I _{R2}	uA	V _R =75V		2.5
Capacitance	C	pF	V _R =0V, f=1MHz		4
Reverse Recovery Time	T _{rr}	ns	I _F =I _R =10mA, I _{rr} =0.1*I _R , R _L =100Ω		4

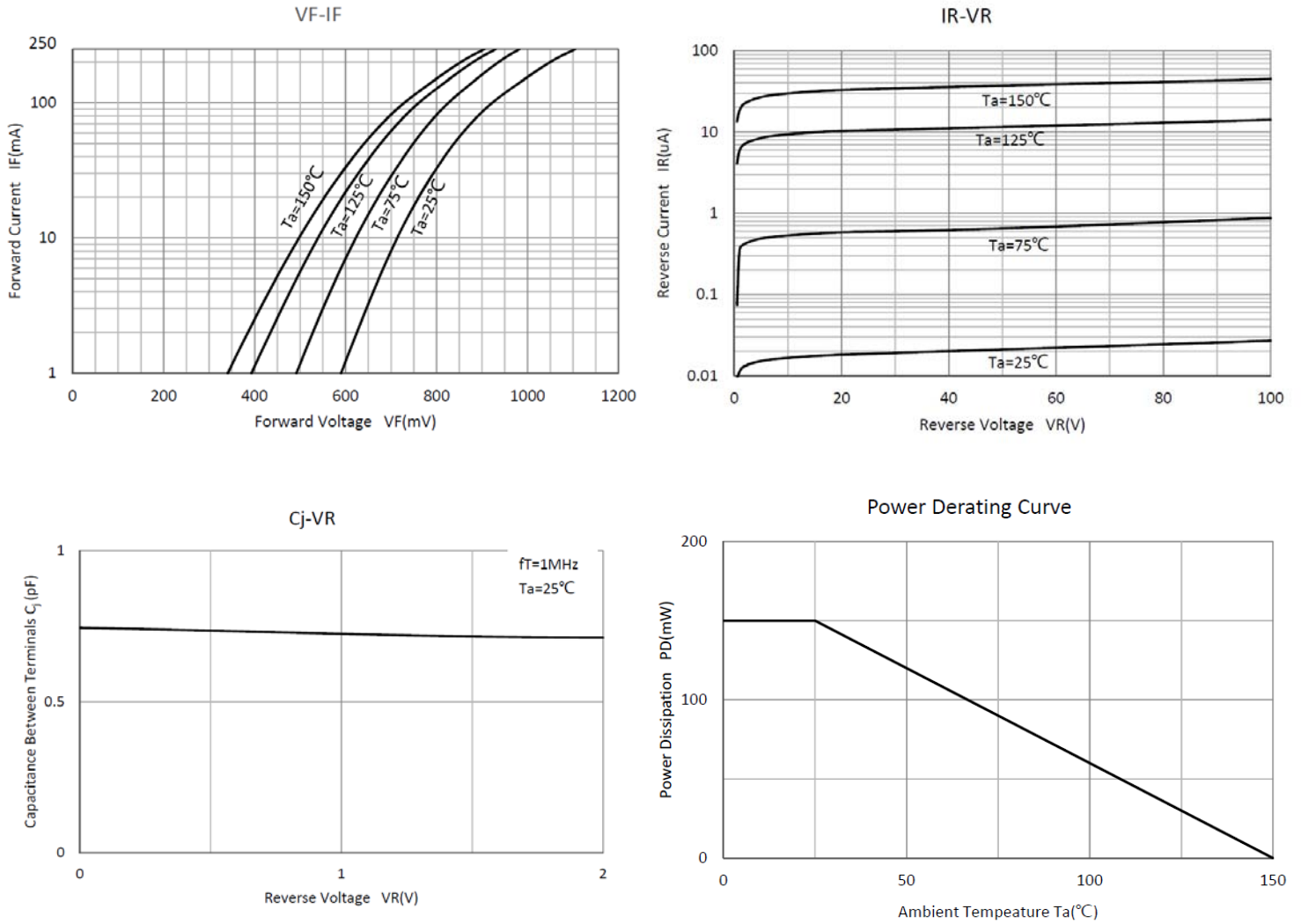


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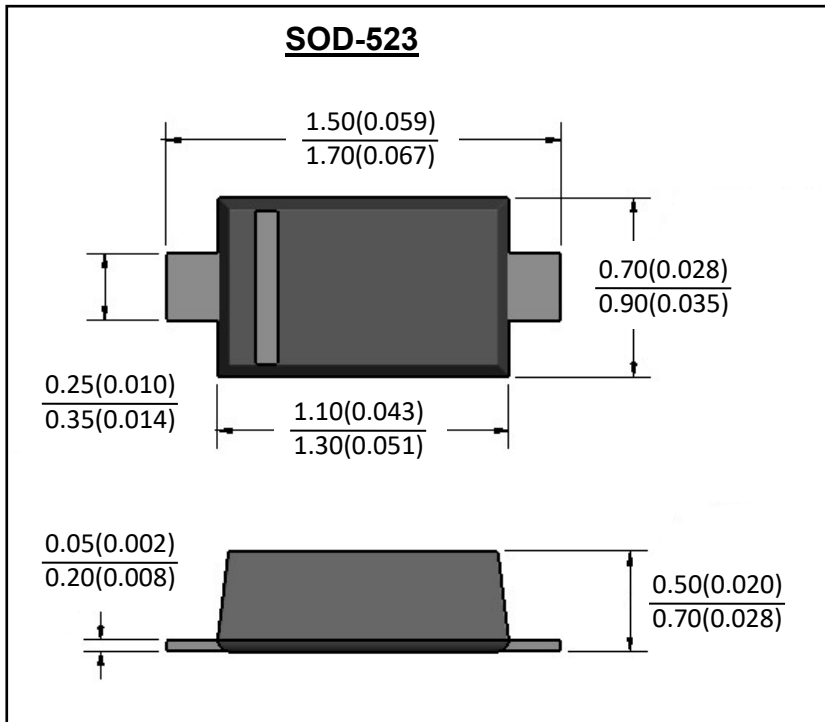
Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4448WT	F2	Approximate 0.002	8000	80000	320000	7" reel

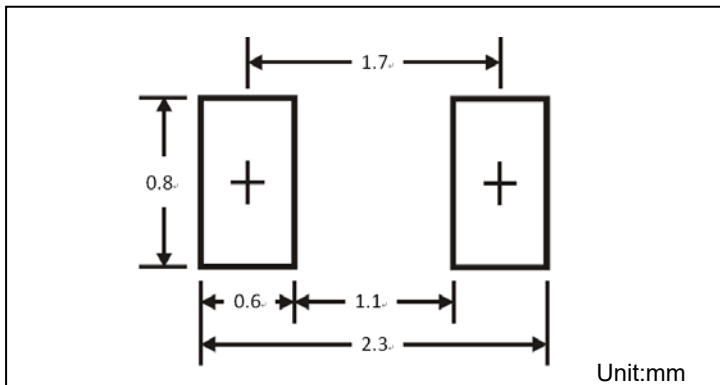
Characteristics (Typical)



■ SOD-523 Package Outline Dimensions



■ SOD-523 Soldering Footprint





1N4448WT

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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