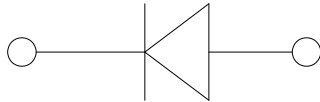
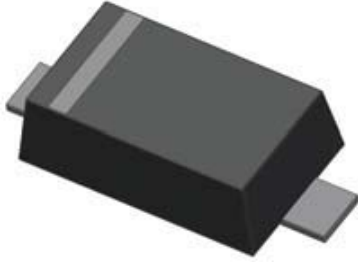


## Small-Signal Fast Switching Diodes



### Features

- VR 75V
- I<sub>F</sub>AV 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<sub>a</sub>=25°C Unless otherwise specified)

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

### ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

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

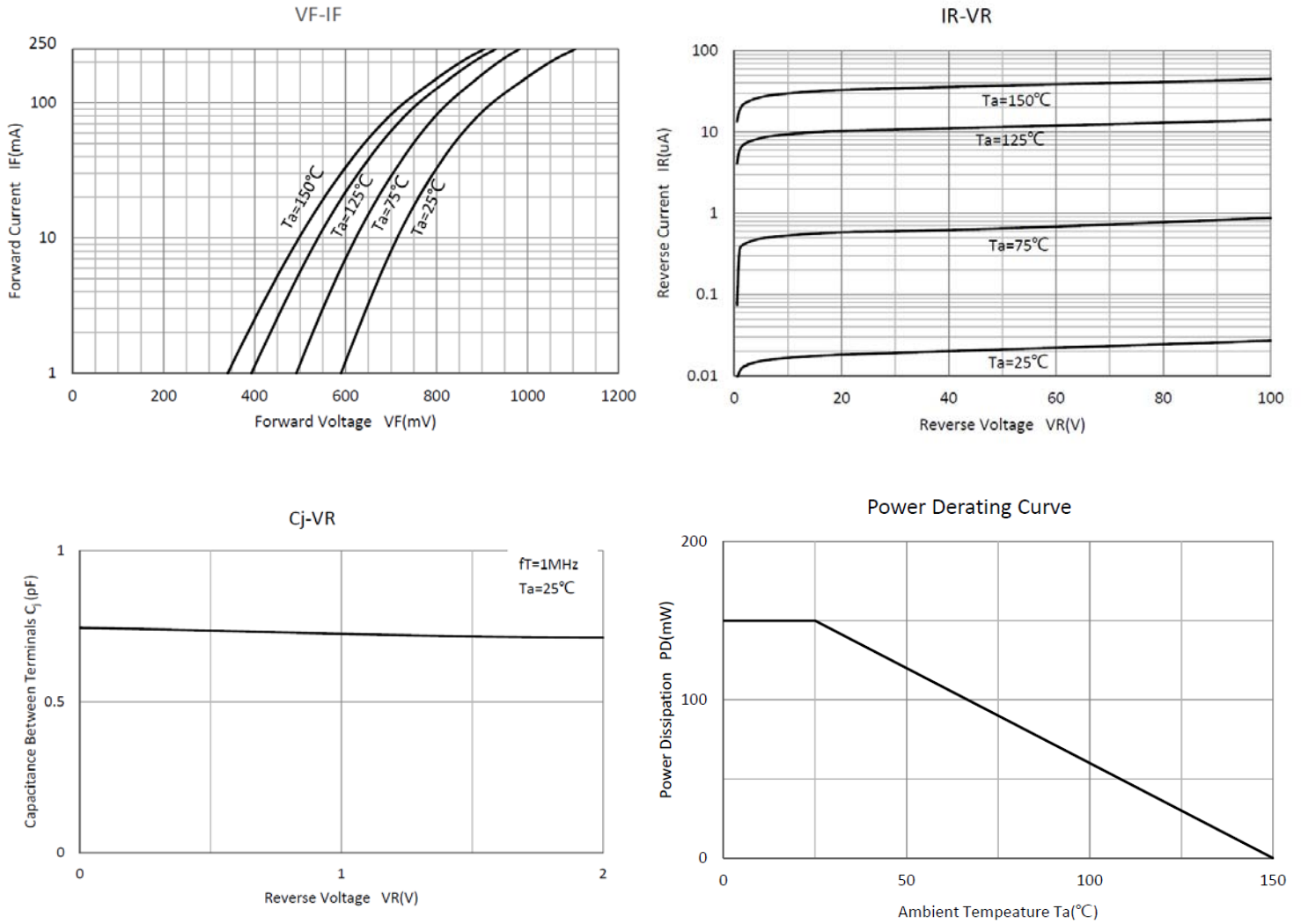


# 1N4448WT

## 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

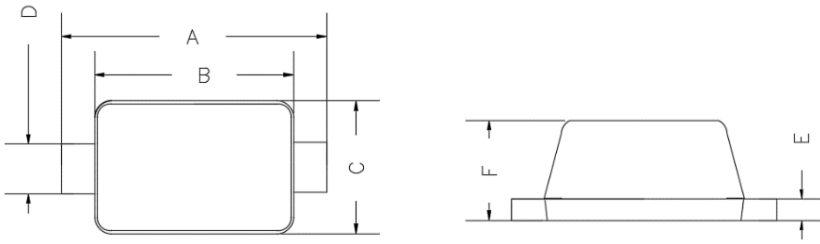
## Characteristics (Typical)





## ■ Outline Dimensions

SOD-523

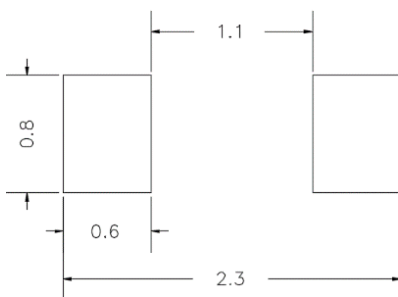


TOP VIEW

SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

## ■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



# 1N4448WT

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