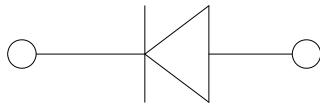
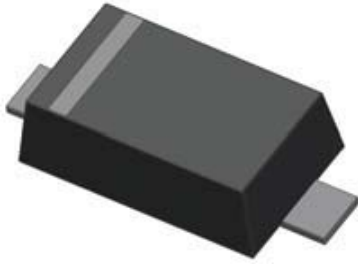


Small-Signal Fast Switching Diodes



Features

- V_R 80V
- I_o 100mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD-523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** A

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		90
Reverse voltage	V_R	V	$I_R=100\mu\text{A}$	80
Non-Repetitive Peak forward surge current	I_{FSM}	A	8.3ms@half-sine	2
Forward continuous current	I_{FM}	mA		225
Average rectified output current	I_o	mA		100
Power dissipation	P_D	mW		150
Junction temperature	T_j	$^\circ\text{C}$		-55 to +150
Storage temperature range	T_{stg}	$^\circ\text{C}$		-55 to +150

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=100\mu\text{A}$	80	
Forward Voltage	V_F	V	$I_F=100\text{mA}$		1.2
Reverse Leakage Current	I_R	μA	$V_R=80\text{V}$		0.1
Diode Capacitance	C_D	pF	$V_R=0.5\text{V}, f=1\text{MHz}$		3
Reverse Recovery Time	T_{RR}	ns	$V_R=6\text{V}, I_F=10\text{mA}, R_L=100\text{W}$		4

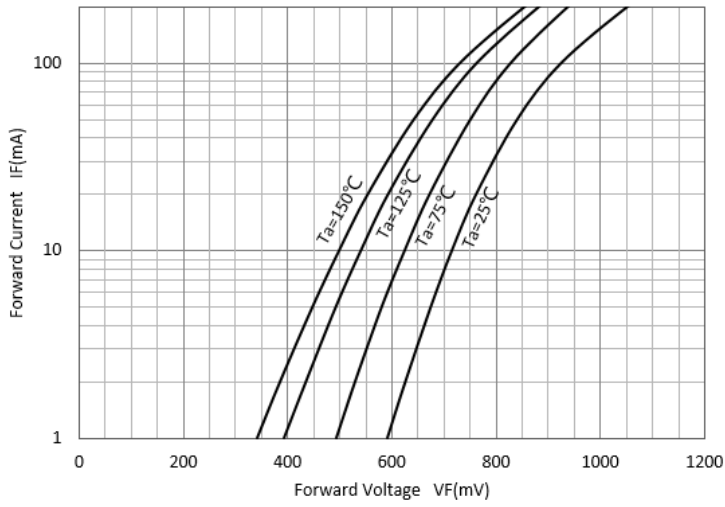
■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1SS400	F2	Approximate 0.002	8000	80000	320000	7" reel

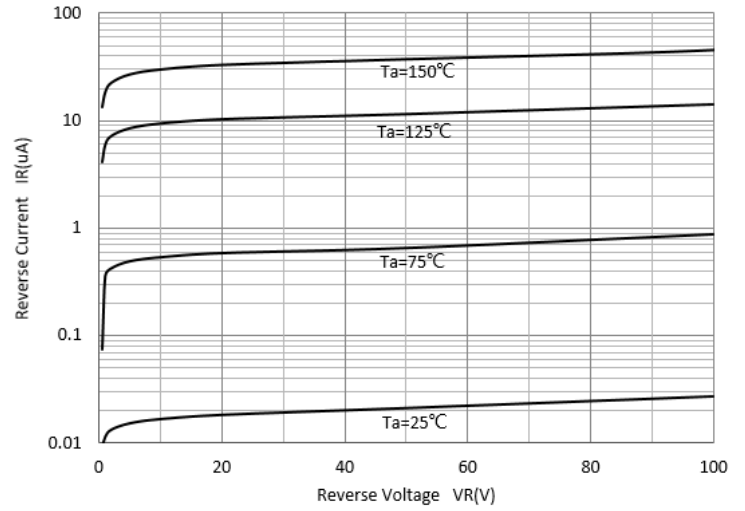


■ Characteristics (Typical)

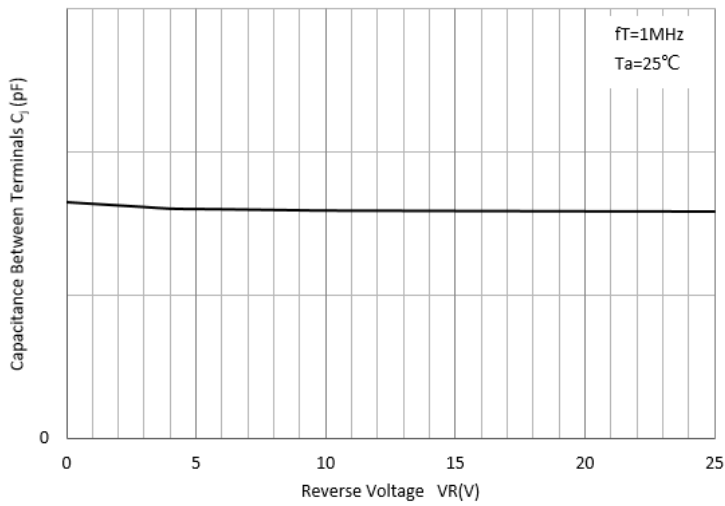
VF-IF



IR-VR

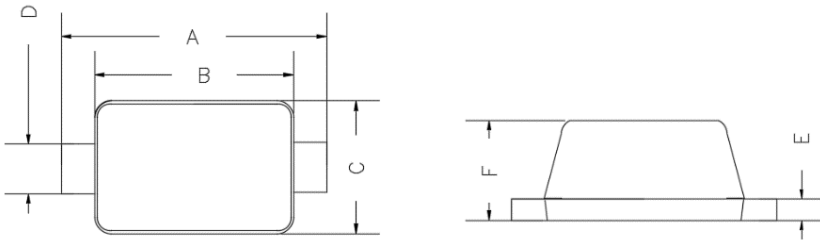


Cj-VR



■ Outline Dimensions

SOD-523

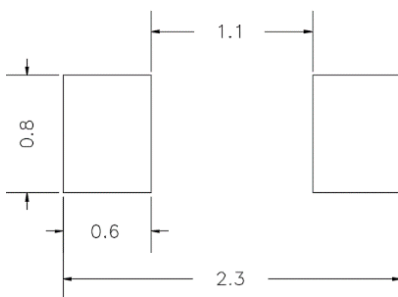


TOP VIEW

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



1SS400

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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