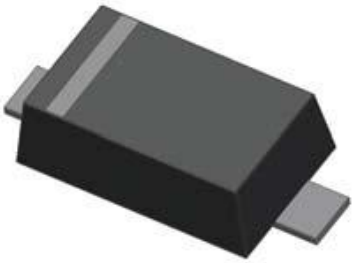
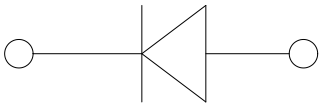
Small-Signal Fast Switching Diodes





Features

- V_R 100V
- 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:** 61

■Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Reverse voltage	V_R	V	IR=100uA	100
Peak forward surge current	I_{FSM}	A	Pulse width=1 us Pulse width=1 s	2 1
Non-repetitive peak forward surge current	I_{FSM}	A	8.3ms half sine-wave	1
Average forward current	I_{FAV}	mA		250
Power dissipation [A]	P_D	mW		250
Maximum junction temperature	T_j	℃		-55 to +150
Storage temperature range	T_{stg}	℃		-55 to +150

Note A. PCB尺寸: 20*15mm，其中铜箔尺寸：7.8*9.6mm

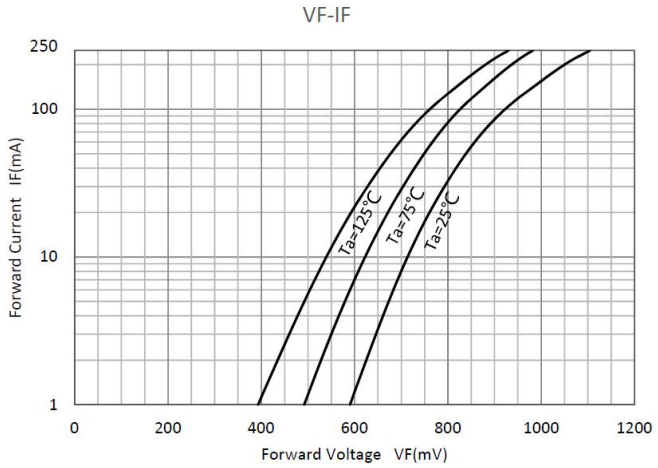
■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

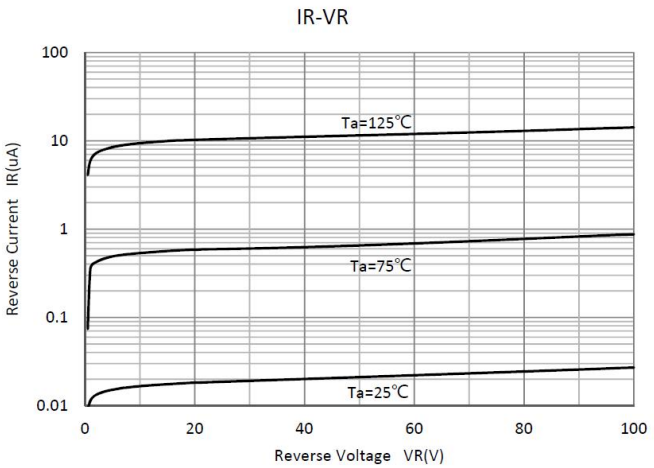
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	IR=100uA	100	
Forward Voltage	V_F	V	IF=1mA		0.715
			IF=10mA		0.855
			IF=50mA		1.00
			IF=150mA		1.25
Reverse Leakage Current	I_{R1}	nA	VR=25V		30
	I_{R2}	uA	VR=75V		1
Capacitance	C	pF	VR=0V,f=1MHz		4
Reverse Recovery Time	Trr	ns	IF=IR=10mA，Irr=0.1*IR, RL=100Ω		4

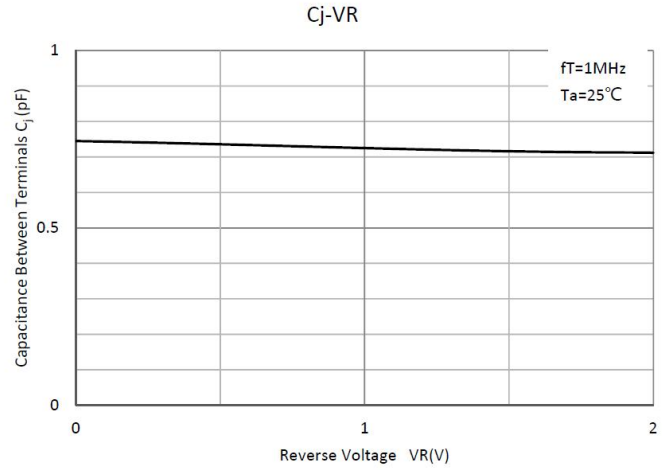
■Ordering Information (Example)

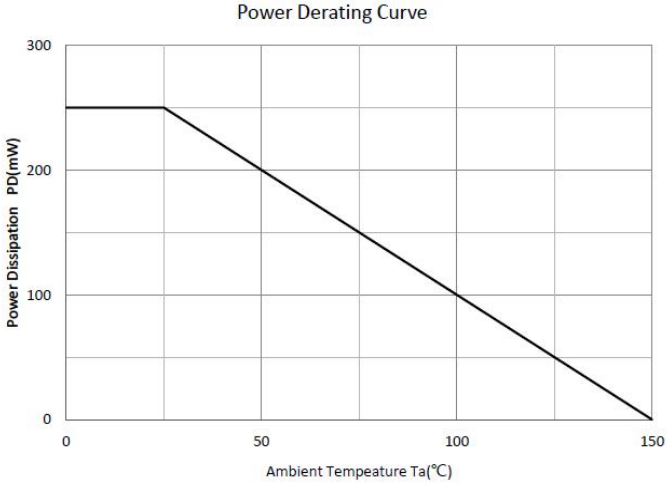
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS516	F2	Approximate 0.002	8000	80000	320000	7" reel

■ Characteristics (Typical)

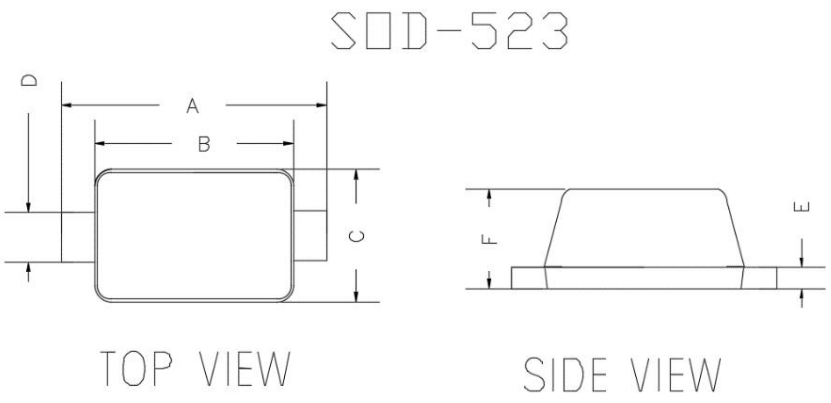






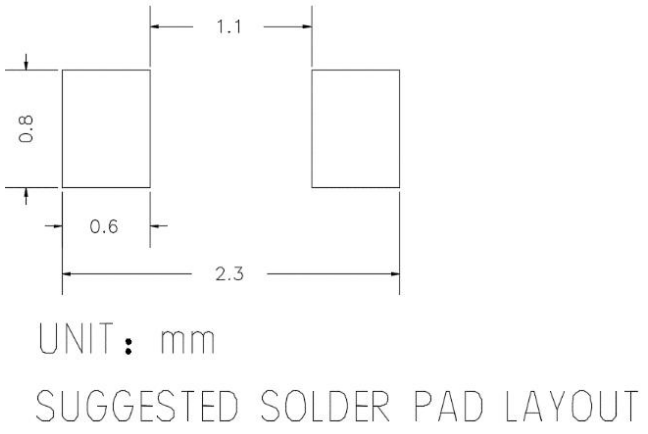


■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	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



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