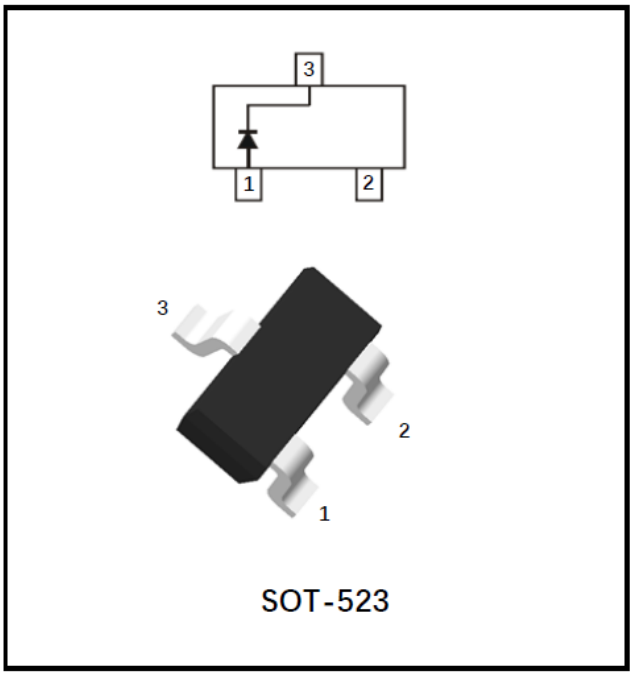
Switching Diode



Features

- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

- **Package**: SOT-523
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** A2

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

Item	Symbol	Unit	Value
Reverse Voltage	V_R	V	85
Forward Continuous Current	I_F	mA	150
Non-Repetitive Peak Forward Surge Current @ t=1ms	I_{FSM}	A	1
Power Dissipation	P_D	mW	150
Thermal Resistance from Junction to Ambient	RθJA	℃/W	833
Operation Junction Temperature	TJ	℃	150
Storage Temperature	TSTG	℃	-55 to +150

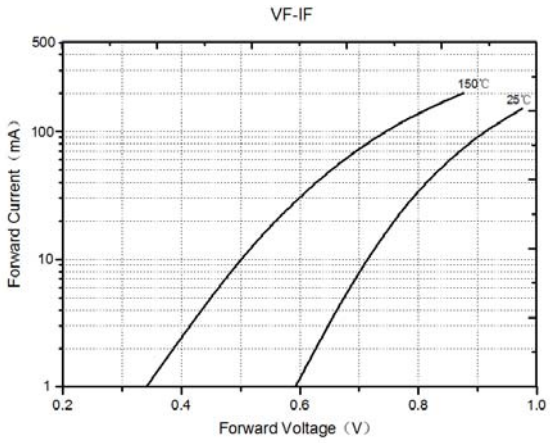
■Electrical Characteristics (Ta=25℃ unless otherwise specified)

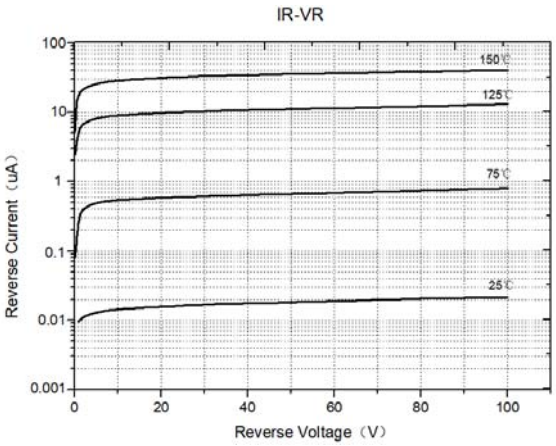
Item	Symbol	Unit	Conditions	MIN	TYP	MAX
Reverse Voltage	V_R	V	IR=100uA	85	-	-
Maximum Instantaneous Forward Voltage	V_F	V	I_F=1mA	-	-	0.715
			I_F=10mA	-	-	0.855
			I_F=50mA	-	-	1
			I_F=150mA	-	-	1.25
Maximum DC Reverse Current	I_R	nA	V_R=25V	-	-	30
		uA	V_R=75V	-	-	2
Typical Junction Capacitance	C_J	pF	f=1.0MHz, V_R=0V	-	-	2
Reverse Recovery Time	T_{rr}	ns	IF=IR=10mA Irr=0.1*IR, RL=100Ω	-	-	4

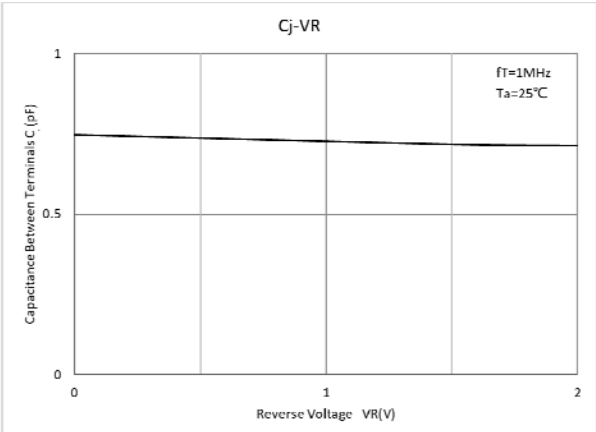
■ Ordering Information (Example)

Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
BAS16T	F2	Approximate 0.0027	3000	30000	120000	7” reel

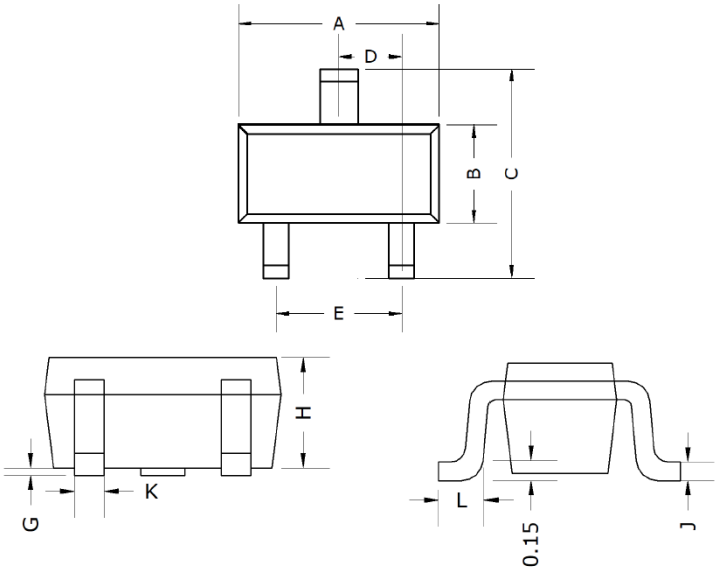
■ Characteristics (Typical)





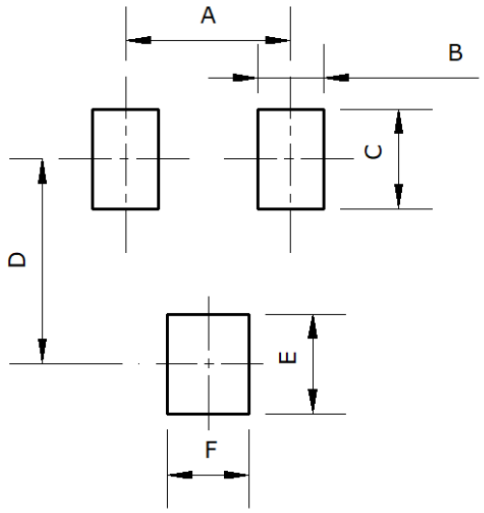


■ SOT-523 Package Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.50	1.70
B	0.030	0.033	0.75	0.85
C	0.057	0.069	1.45	1.75
D	0.020TYP		0.50TYP	
E	0.035	0.043	0.90	1.10
G	0.000	0.004	0.00	0.10
H	0.024	0.031	0.60	0.80
J	0.004	0.008	0.10	0.20
K	0.006	0.014	0.15	0.35
L	0.010	0.018	0.26	0.46

■ SOT-523 Suggested Pad Layout



DIMENSIONS	
DIM	MM (TYP)
A	1.00
B	0.40
C	0.60
D	1.24
E	0.60
F	0.50

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