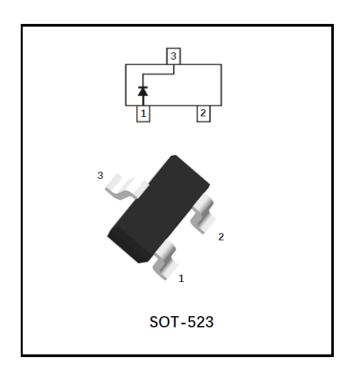




Switching Diode



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: T3

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

Item	Symbol	Unit	Value
Reverse Voltage	V_R	V	250
Forward Continuous Current	l _F	mA	200
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I _{FSM}	Α	2.5
Power Dissipation	P_{D}	mW	150
Thermal Resistance from Junction to Ambient	RθJA	°C/W	833
Operation Junction Temperature	TJ	°C	150
Storage Temperature	TSTG	°C	-55 to +150

BAS21T

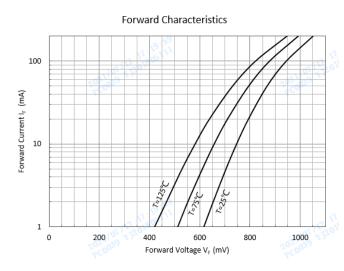
■Electrical Characteristics (Ta=25°C unless otherwise specified)

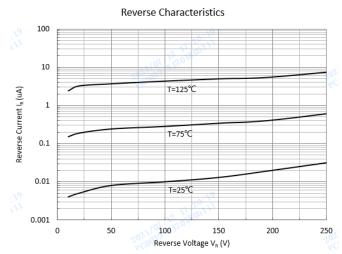
Item	Symbol	Unit	Conditions	MIN	TYP	MAX
Reverse Voltage	V_R	V	IR=100uA	250	-	-
Maximum Instantaneous Forward Voltage	V _F	V	I _F =100mA	-	-	1
Maximum Instantaneous Forward Voltage			I _F =200mA	-	-	1.25
Maximum DC Reverse Current	I _R	nA	V _R =200V	-	-	100
Typical Junction Capacitance	CJ	pF	f=1.0MHz, V _R =0V	-	-	5
Reverse Recovery Time	T _{rr}	ns	IF=IR=30mA Irr=0.1*IR, RL=100Ω	-	-	50

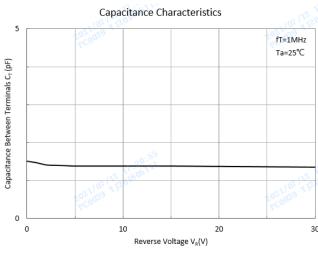
■ Ordering Information (Example)

Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
BAS21T	F2	Approximate 0.0027	3000	30000	120000	7" reel

■ Characteristics (Typical)

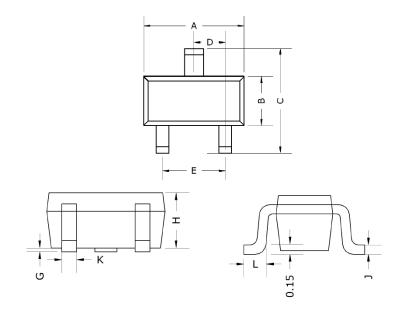






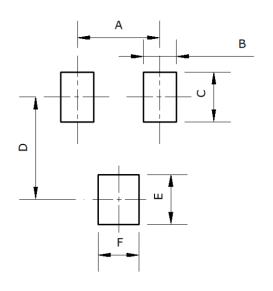


■ SOT-523 Package Outline Dimensions



DIMENSIONS					
	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	
А	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.02	0TYP	0.50TYP		
E	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	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)			
Α	1.00			
В	0.40			
С	0.60			
D	1.24			
Е	0.60			
F	0.50			

3/4



BAS21T

Disclaimer

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