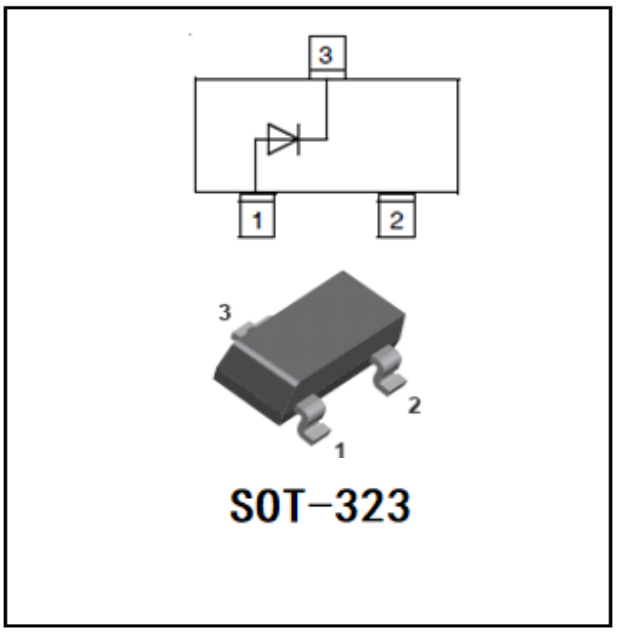
Switching Diode



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

- **Package**: SOT-323
- **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
Non-Repetitive Peak Reverse Voltage	V_{RM}	V	100
Reverse Voltage	V_R	V	100
Peak Forward Current	I_{FAV}	mA	150
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	℃/W	625
Operation Junction Temperature	T_J	℃	-55 to +150
Storage Temperature	T_{STG}	℃	-55 to +150

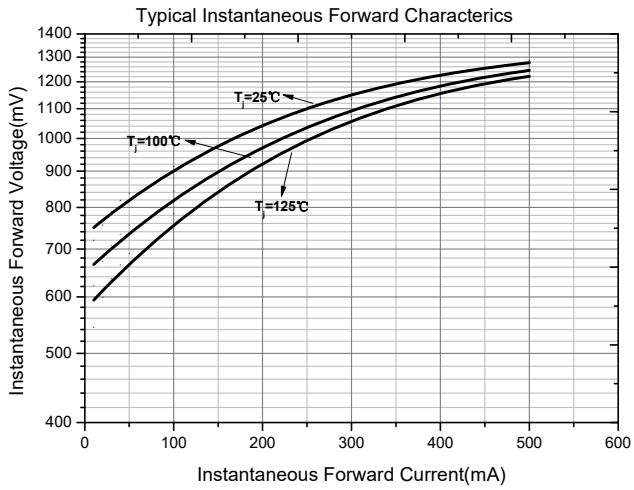
■Electrical Characteristics (Ta=25℃ unless otherwise specified)

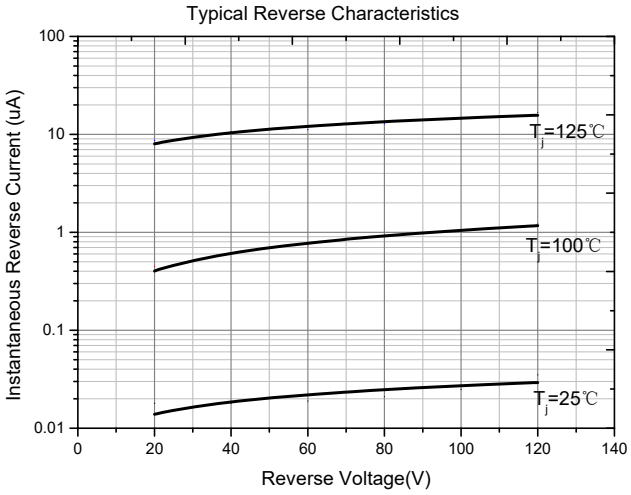
Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V_R	V	I_R=100uA	100
Maximum Instantaneous Forward Voltage	V_F	V	I_F=1mA	0.715
			I_F=10mA	0.855
			I_F=50mA	1.0
			I_F=150mA	1.25
Maximum DC Reverse Current	I_R	uA	V_R=75V	2.5
Maximum Junction Capacitance	C_J	pF	f=1.0MHz, V_R=0V	4
Maximum Reverse Recovery Time	T_{rr}	ns	I_F=I_R=10mA ,I_{rr}=0.1*I_R, R_L=100Ω	4

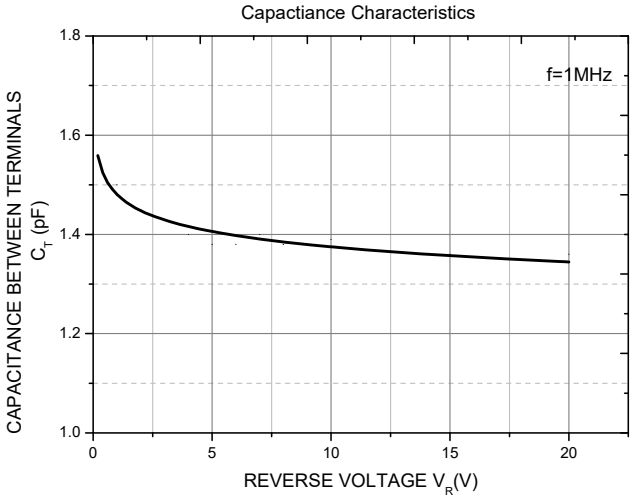
■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS16WT	F2	Approximate 0.005	3000	30000	120000	7” reel

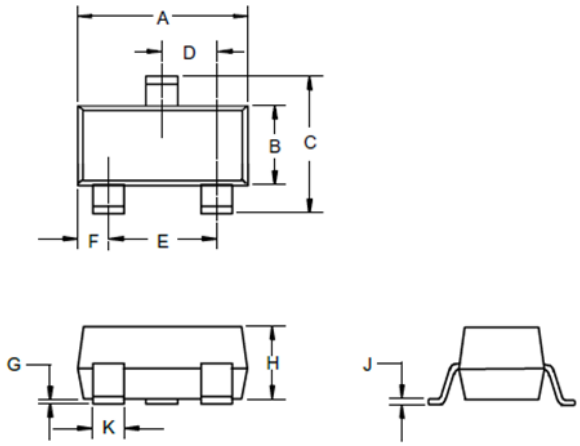
■ Characteristics (Typical)





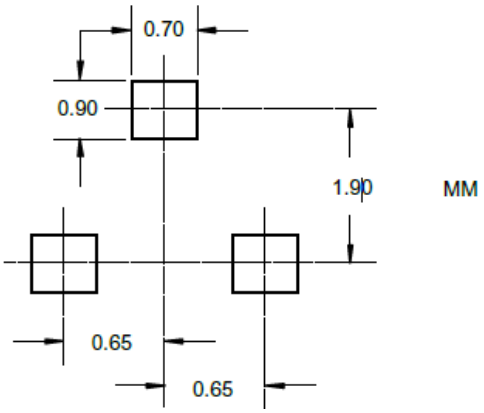


■ SOT-323 Package Outline Dimensions



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

■ SOT-323 Suggested Pad Layout



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