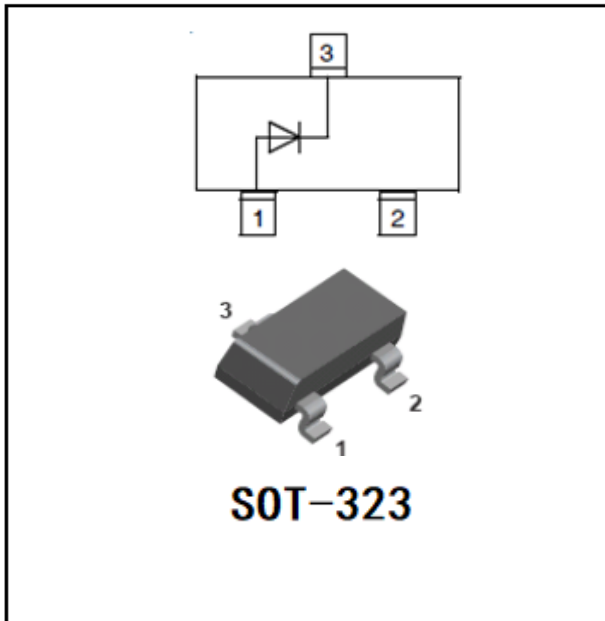


Switching Diode



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°C 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	$R_{\theta JA}$	°C/W	625
Operation Junction Temperature	T_J	°C	-55 to +150
Storage Temperature	T_{STG}	°C	-55 to +150

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

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V_R	V	$I_R=100\mu A$	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	μA	$V_R=75V$	2.5
Maximum Junction Capacitance	C_J	pF	$f=1.0MHz, V_R=0V$	4
Maximum Reverse Recovery Time	T_{rr}	ns	$I_F=I_R=10mA, I_{rr}=0.1*I_R, R_L=100\Omega$	4

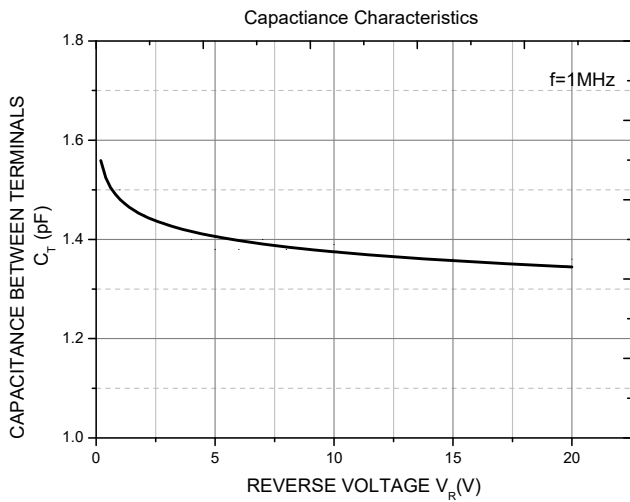
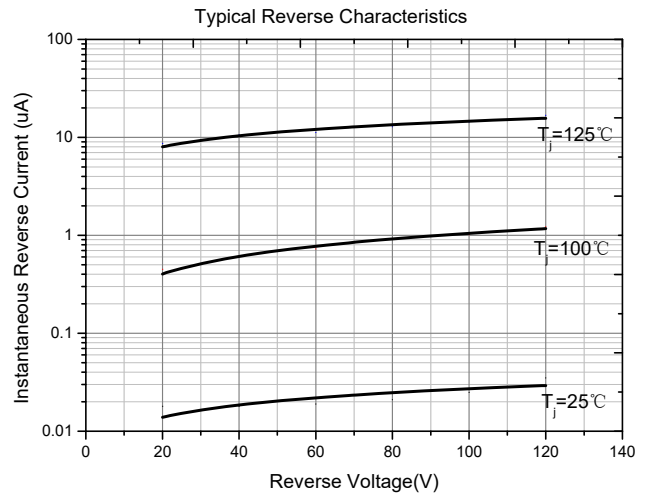
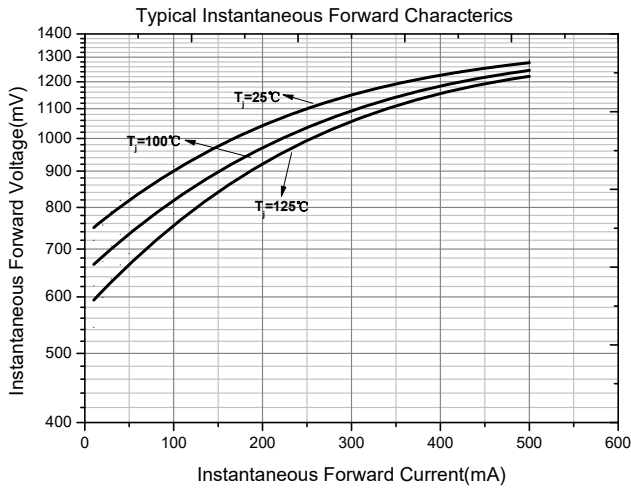


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Ordering Information (Example)

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

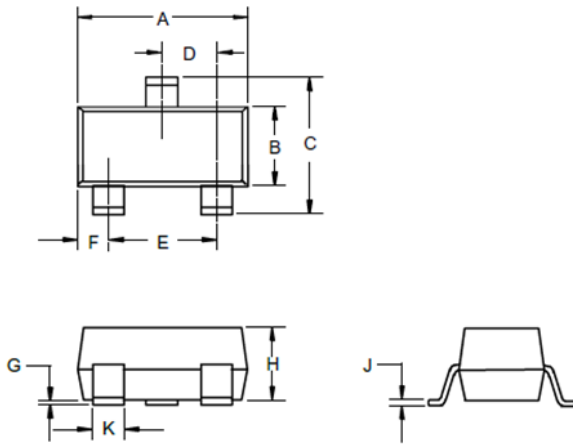
Characteristics (Typical)





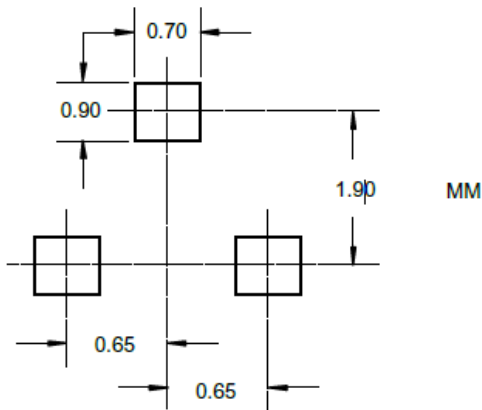
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■ SOT-323 Package Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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





BAS16WT

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