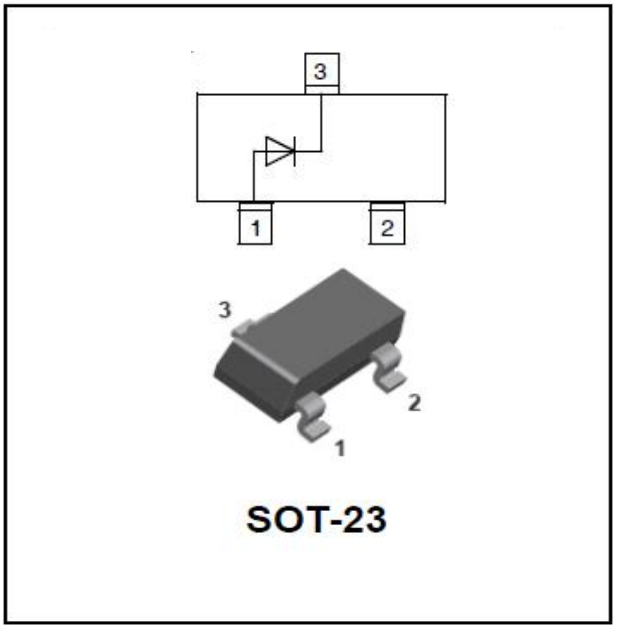
# Switching Diode




## Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Low Current Leakage
- Marking:JS

## ■Maximum Rating, (Ta=25℃ Unless otherwise specified)

| Item | Symbol | Unit | Value |
|---|---|---|---|
| Reverse Voltage | $V_R$ | V | 250 |
| Forward Continuous Current, Per Leg | $I_F$ | mA | 200 |
| Non-Repetitive Peak Forward Surge Current @ t=1s, | $I_{FSM}$ | A | 0.5 |
| Power Dissipation | $P_D$ | mW | 250 |
| Operation Junction Temperature | $T_J$ | ℃ | -55 to +150 |
| Storage Temperature | $T_{STG}$ | ℃ | -55 to +150 |

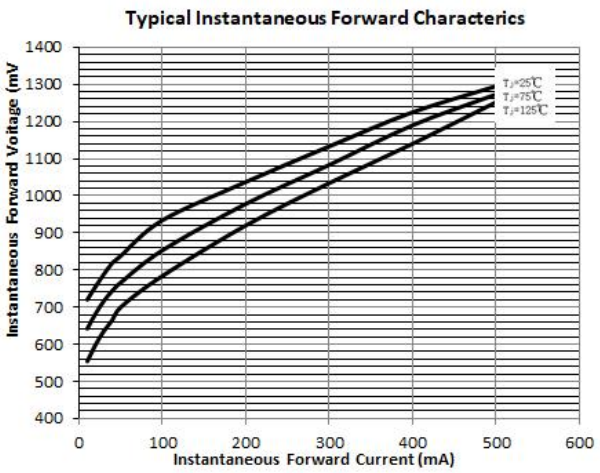
## ■Ordering Information (Example)

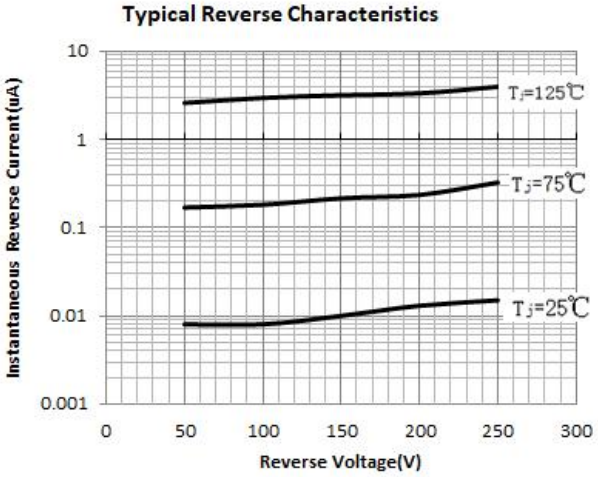
| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---|---|---|---|---|---|---|
| BAS21 | F2 | Approximate 0.008 | 3000 | 30000 | 120000 | 7” reel |

## ■Electrical Characteristics（$T_a$=25℃ Unless otherwise specified, Per Leg）

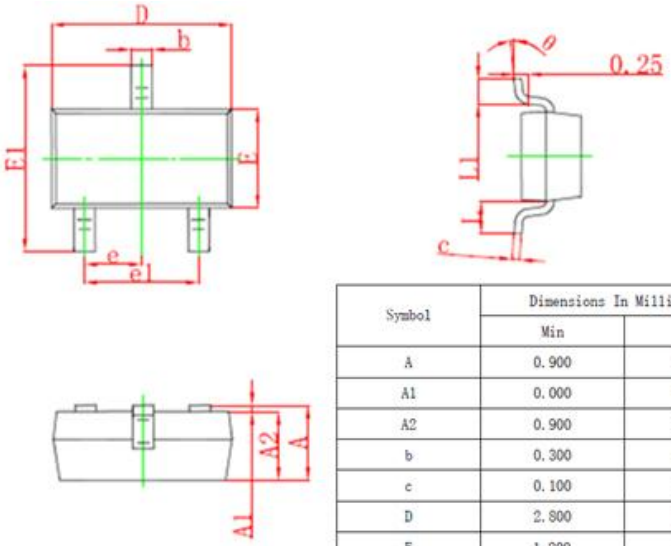
| Item | Symbol | Unit | Conditions | Value |
|---|---|---|---|---|
| Reverse Voltage | $V_R$ | V | $I_R$=100uA | 250 |
| Maximum Instantaneous Forward Voltage | $V_F$ | V | $I_{FM}$=100mA, $T_J$=25℃ | 1.0 |
| | | | $I_{FM}$=200mA, $T_J$=25℃ | 1.25 |
| Maximum DC Reverse Current | $I_R$ | nA | $V_R$=200V | 100 |
| Typical Junction Capacitance | $C_J$ | pF | f=1.0MHz, $V_R$=0V | 5 |
| Reverse Recovery Time | $T_{rr}$ | ns | $I_F$=30mA, $I_R$=30mA, $R_L$=100Ω, $I_{rr}$=3mA | 50 |

## ■ Typical Characteristics (Per Leg)



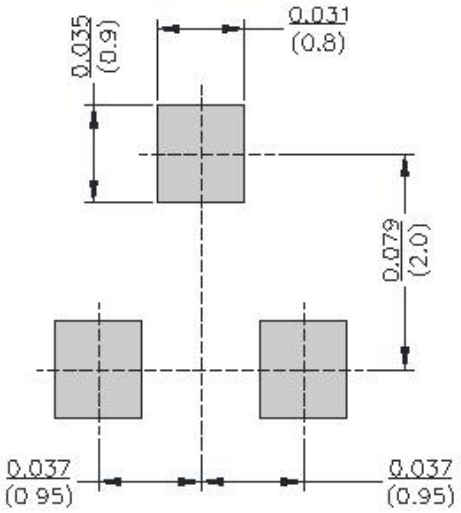



## ■SOT-23 Package Outline Dimensions




| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|---|---|---|---|---|
| | Min | Max | Min | Max |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.047 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.950TYP | | 0.037TYP | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550REF | | 0.022REF | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| θ | 0° | 8° | 0° | 8° |

## ■SOT-23 Suggested Pad Layout



## Notice

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