



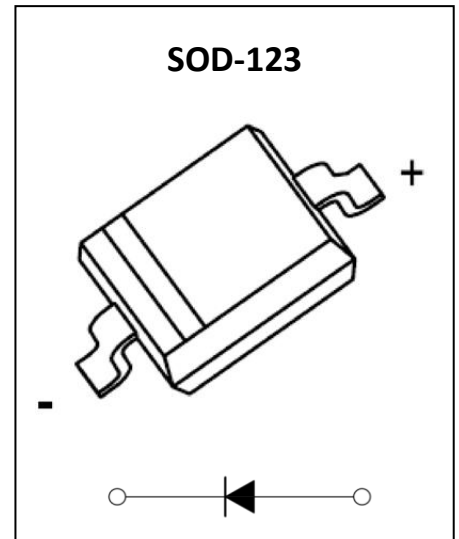
BAS16W Switching Diode

Feature

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

MARKING:

A6/T4



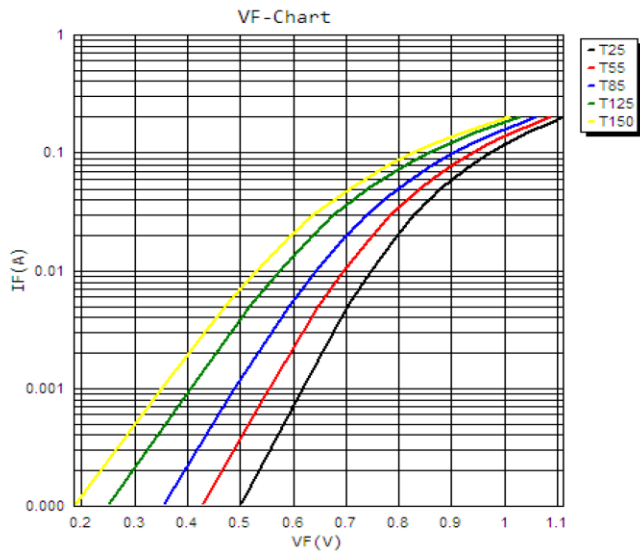
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--|-----------|------------|--------------------|
| Non-repetitive Peak reverse voltage | V_{RSM} | 100 | V |
| Repetitive Peak reverse voltage | V_{RRM} | 75 | V |
| Repetitive Peak Forward Surge Current | I_{FRM} | 0.3 | A |
| Non-repetitive Peak Forward Current @ $t=1\mu\text{s}$ | I_{FSM} | 2 | A |
| Continuous Forward Current | I_O | 0.15 | A |
| Power Dissipation | P_D | 0.2 | W |
| Junction Temperature | T_J | 150 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{STG} | -55 ~ +150 | $^{\circ}\text{C}$ |

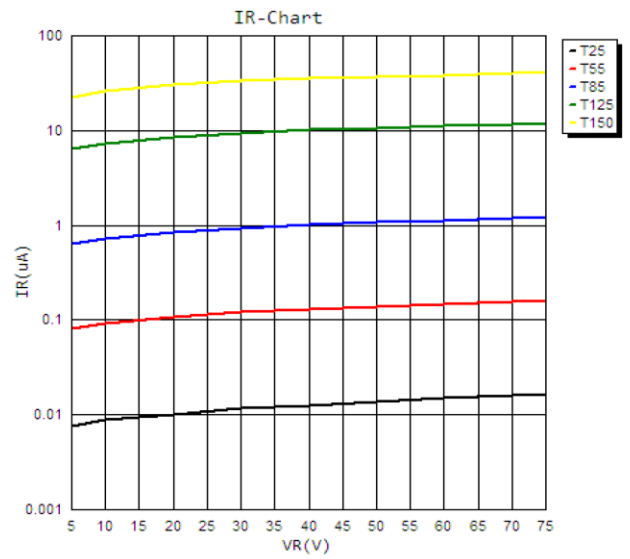
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Parameter | Symbol | Test Condition | Min | Type | Max | Unit |
|-----------------------|----------|--|-----|------|-------|---------------|
| Reverse voltage | V_{BR} | $I_R = 100\mu\text{A}$ | 100 | | | V |
| | | $I_R = 5\mu\text{A}$ | 75 | | | V |
| Forward voltage | V_F | $I_F = 1\text{m}$ | | | 0.715 | V |
| | | $I_F = 10\text{mA}$ | | | 0.855 | V |
| | | $I_F = 50\text{mA}$ | | | 1 | V |
| | | $I_F = 150\text{mA}$ | | | 1.25 | V |
| Reverse current | I_R | $V_R = 20\text{V}$ | | | 25 | nA |
| | | $V_R = 75\text{V}$ | | | 1 | μA |
| Reverse Recovery Time | T_{RR} | $I_F = 10\text{mA}, V_R = 6\text{V}, I_{RR} = 1\text{mA}, R_L = 100\Omega$ | | | 4 | ns |

Typical Characteristics

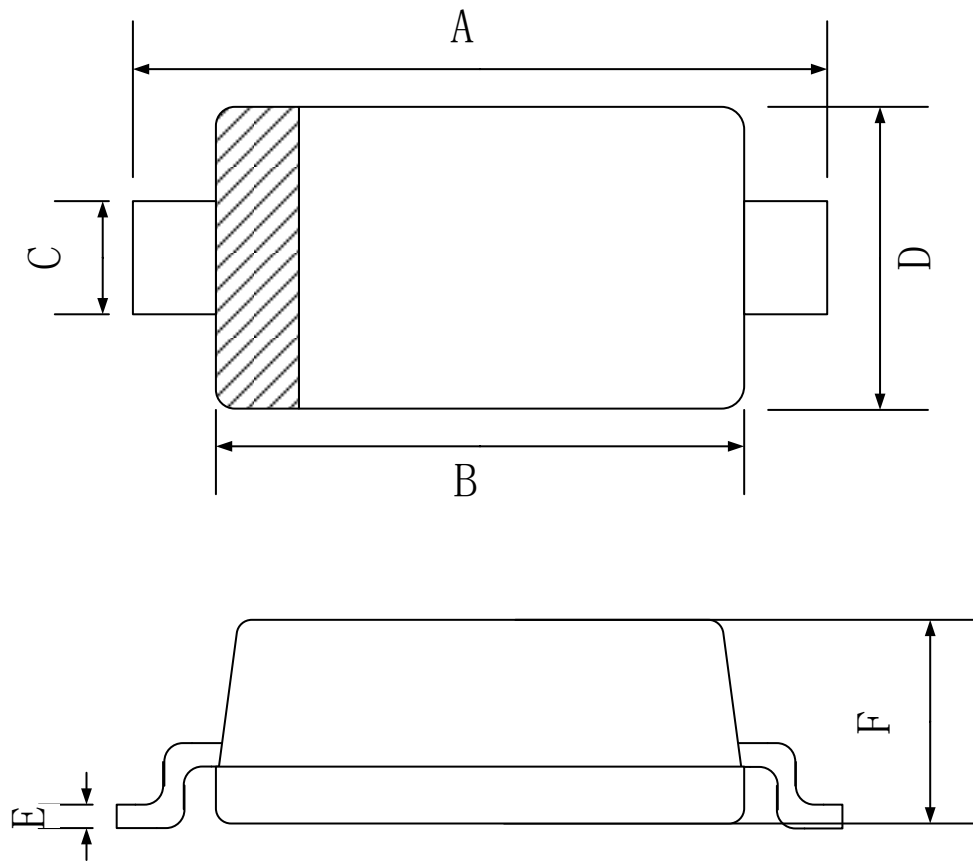


Forward current(I_F) vs Forward voltage(V_F)



Reverse current(I_R) vs Reverse voltage(V_R)

SOD-123 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | |
|--------|---------------------------|-------|------|
| | Min. | Typ. | Max. |
| A | 3.45 | 3.65 | 3.85 |
| B | 2.55 | 2.65 | 2.75 |
| C | 0.45 | 0.55 | 0.65 |
| D | 1.50 | 1.60 | 1.70 |
| E | 0.09 | 0.105 | 0.12 |
| F | 0.95 | 1.15 | 1.35 |