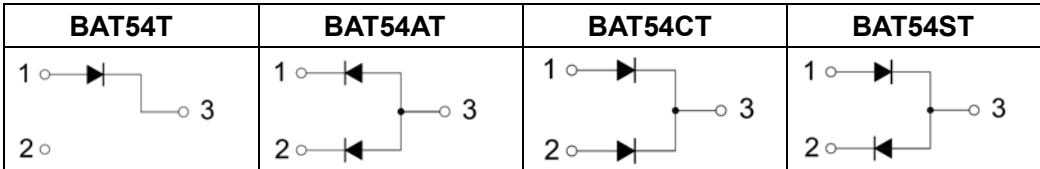
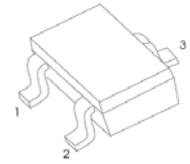


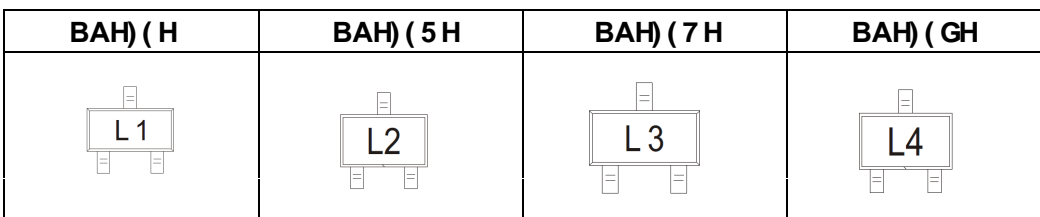
FEATURES

- Low Forward Voltage Drop
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

SOT-523



MARKING:



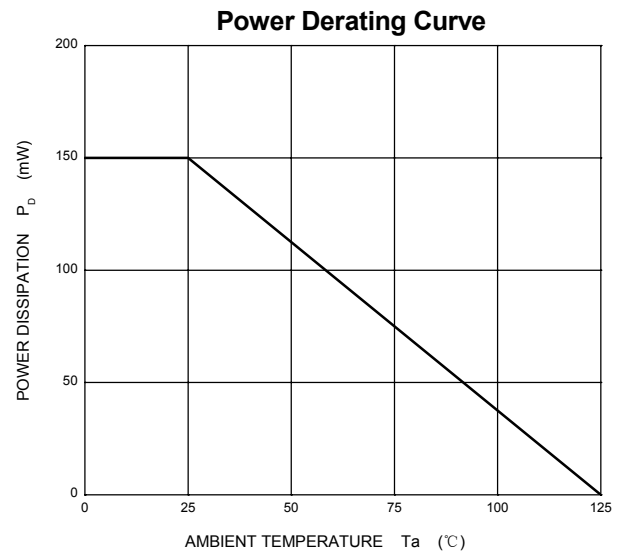
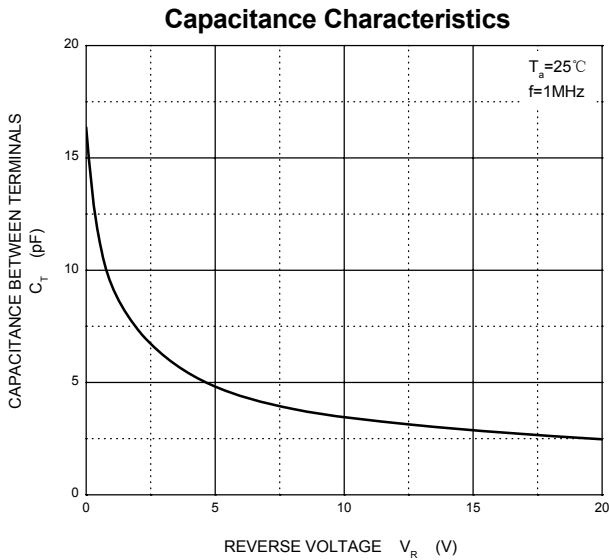
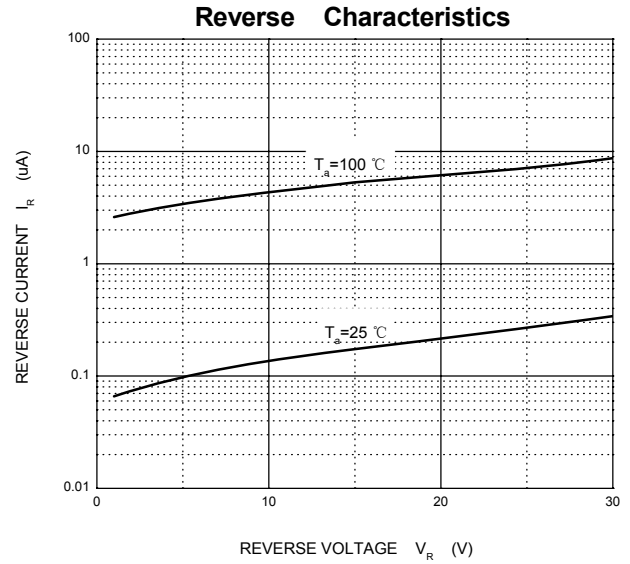
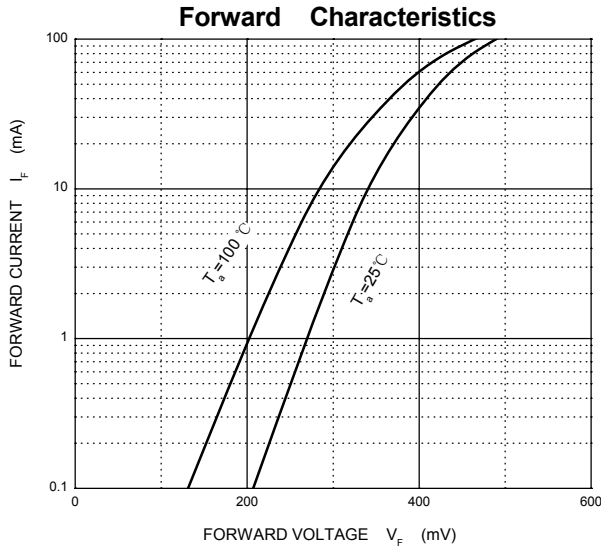
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|---------------------|--|----------|------|
| V _{RRM} | Peak Repetitive Reverse Voltage | 30 | V |
| V _{RWM} | Working Peak Reverse Voltage | | |
| V _{R(RMS)} | RMS Reverse Voltage | 21 | V |
| I _o | Average Rectified Output Current | 0.2 | A |
| I _{FSM} | Non-repetitive Peak Forward Surge Current @ t=8.3ms | 600 | mA |
| I _{FRM} | Repetitive Peak Forward Surge Current @ t≤1s; δ ≤0.5 | 300 | mA |
| P _D | Power Dissipation | 150 | mW |
| R _{θJA} | Thermal Resistance from Junction to Ambient | 667 | °C/W |
| T _j | Junction Temperature | 125 | °C |
| T _{stg} | Storage Temperature | -55~+150 | °C |

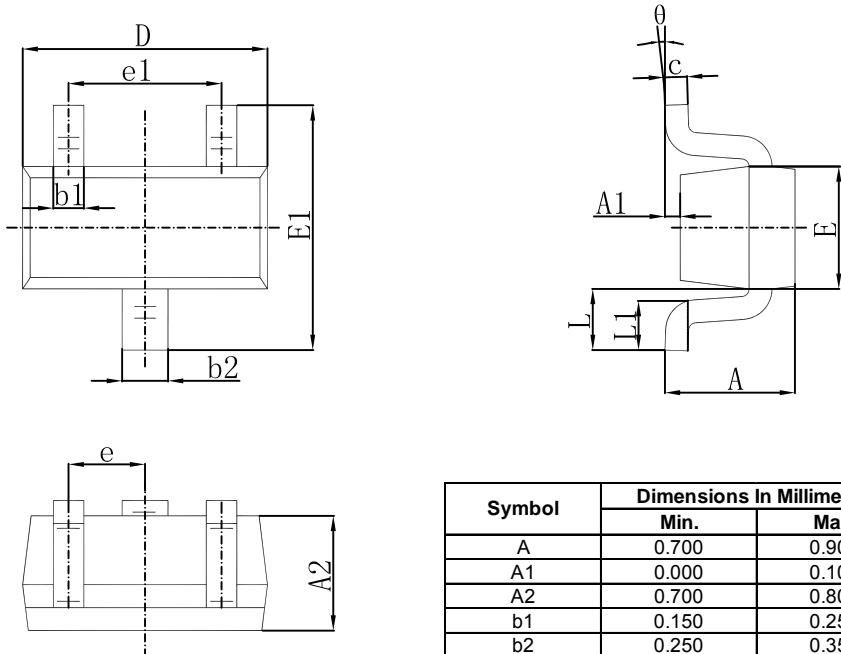
ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-----------------------|-------------------|---|-----|-----|------|------|
| Reverse voltage | V _(BR) | I _R =100μA | 30 | | | V |
| Reverse current | I _R | V _R =25V | | | 2 | μA |
| Forward voltage | V _F | I _F =1mA | | | 0.32 | V |
| | | I _F =10mA | | | 0.4 | |
| | | I _F =30mA | | | 0.5 | |
| | | I _F =100mA | | | 1 | |
| Total capacitance | C _{tot} | V _R =1V, f=1MHz | | | 10 | pF |
| Reverse recovery time | t _{rr} | I _F = I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω | | | 5 | ns |

Typical Characteristics

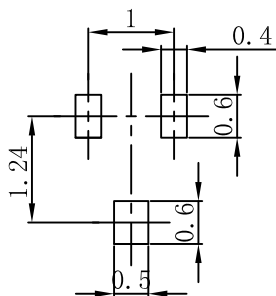


SOT-523 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 0.700 | 0.900 | 0.028 | 0.035 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.700 | 0.800 | 0.028 | 0.031 |
| b1 | 0.150 | 0.250 | 0.006 | 0.010 |
| b2 | 0.250 | 0.350 | 0.010 | 0.014 |
| c | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 1.500 | 1.700 | 0.059 | 0.067 |
| E | 0.700 | 0.900 | 0.028 | 0.035 |
| E1 | 1.450 | 1.750 | 0.057 | 0.069 |
| e | 0.500 TYP. | | 0.020 TYP. | |
| e1 | 0.900 | 1.100 | 0.035 | 0.043 |
| L | 0.400 REF. | | 0.016 REF. | |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |
| θ | 0° | 8° | 0° | 8° |

SOT-523 Suggested Pad Layout



- Note:
1. Controlling dimension: in millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.

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