



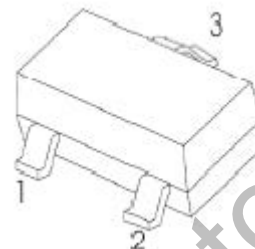
BAT54/BAT54A/BAT54C/BAT54S

Features:

- Extremely Fast Switching Speed



SOT- 23



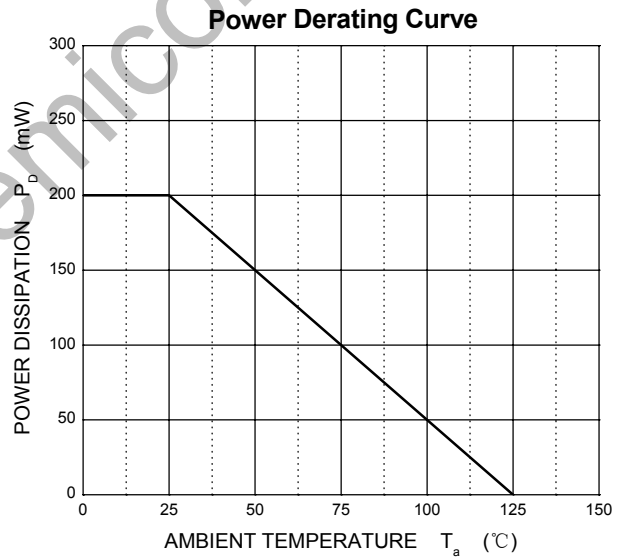
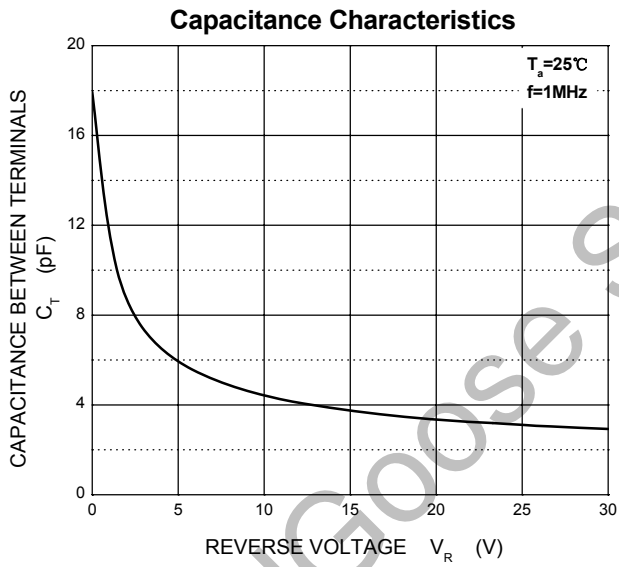
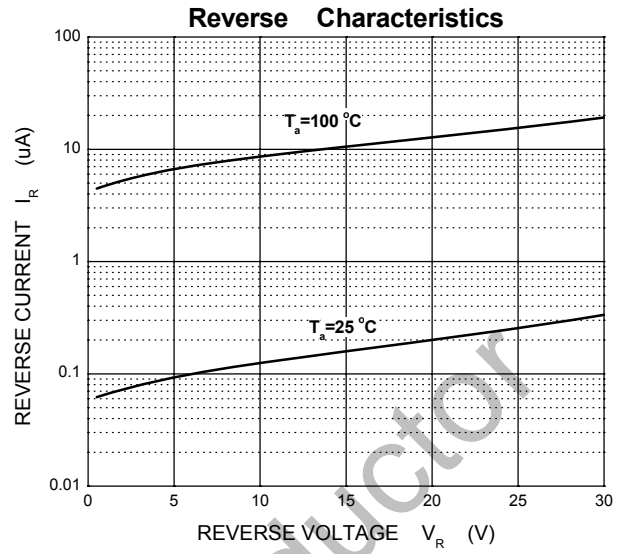
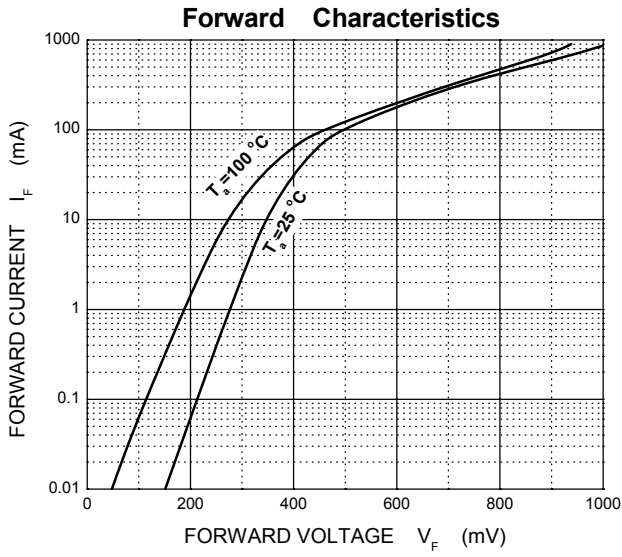
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|------------------|----------|------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 30 | V |
| Working Peak Reverse Voltage | V _{RWM} | | |
| DC Blocking Voltage | V _R | | |
| Forward Continuous Current | I _{FM} | 200 | mA |
| Non-repetitive Peak Forward Surge Current @ t=8.3ms | I _{FSM} | 600 | mA |
| Repetitive Peak Forward Current @ t≤1s, δ ≤0.5 | I _{FRM} | 300 | mA |
| Power Dissipation | P _D | 200 | mW |
| Thermal Resistance from Junction to Ambient | R _{θJA} | 500 | °C/W |
| Junction Temperature | T _j | 125 | °C |
| Storage Temperature | T _{stg} | -55~+150 | °C |

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

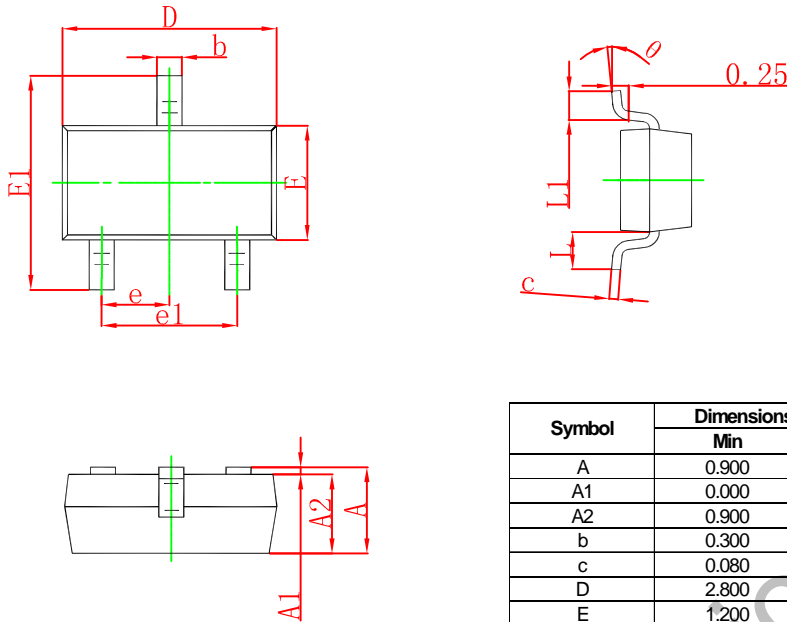
| Parameter | Symbol | Min | Typ | Max | Unit | Test conditions |
|-----------------------|-------------------|-----|-----|------|------|--|
| Reverse voltage | V _(BR) | 30 | | | V | I _R =100μA |
| Forward voltage | V _F | | | 0.24 | V | I _{F1} =0.1mA |
| | | | | 0.32 | V | I _{F2} =1mA |
| | | | | 0.40 | V | I _{F3} =10mA |
| | | | | 0.50 | V | I _{F4} =30mA |
| | | | | 1 | V | I _{F5} =100mA |
| Reverse current | I _R | | | 2 | μA | V _R =25V |
| Diode capacitance | C _D | | | 10 | pF | V _R =1V,f=1MHz |
| Reverse recovery time | t _{rr} | | | 5 | ns | I _F =I _R =10mA I _{rr} =0.1 × I _R ,R _L =100 Ω |

Typical Characteristics



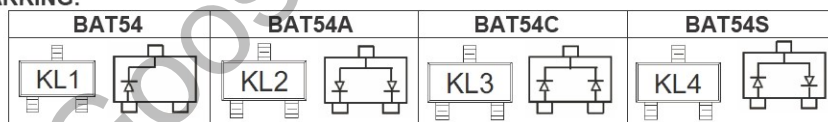
Package Dimension

SOD-23



| 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 | 0.080 | 0.150 | 0.003 | 0.006 |
| 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 | 0.950 TYP | | 0.037 TYP | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550 REF | | 0.022 REF | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| θ | 0° | 8° | 0° | 8° |

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