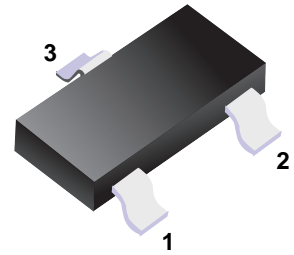


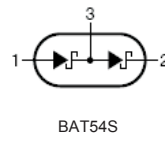
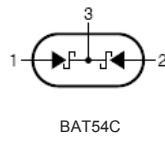
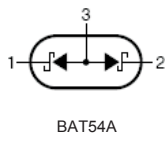
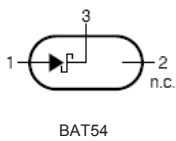
■ Schottky Diodes



■ Simplified outline(SOT-23)

■ Features

- Low forward voltage
- Guard ring protected
- Small plastic SMD package.



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|---|--------|-------------|------|
| Maximum Repetitive Reverse Voltage | VRRM | 30 | V |
| Average Rectified Forward Current | IF(AV) | 200 | mA |
| Non-repetitive Peak Forward Surge Current Pulse width = 1.0 second | IFSM | 600 | mA |
| Power Dissipation | PD | 200 | mW |
| Thermal Resistance, Junction to Ambient | RθJA | 430 | °C/W |
| Storage Temperature Range | Tstg | -55 to +150 | °C |
| Operating Junction Temperature | TJ | 150 | °C |

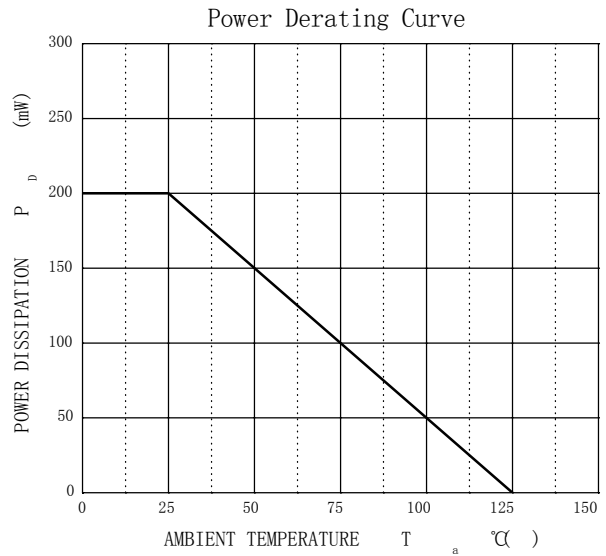
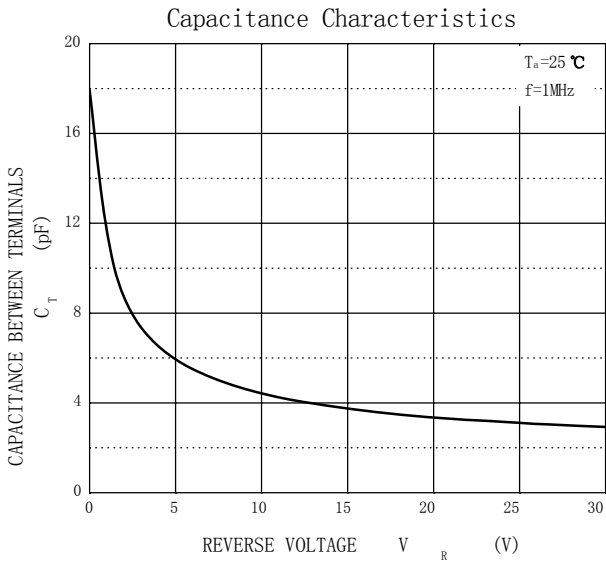
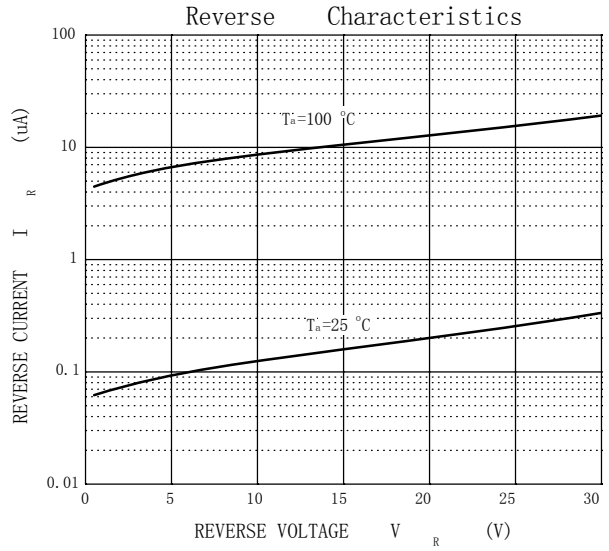
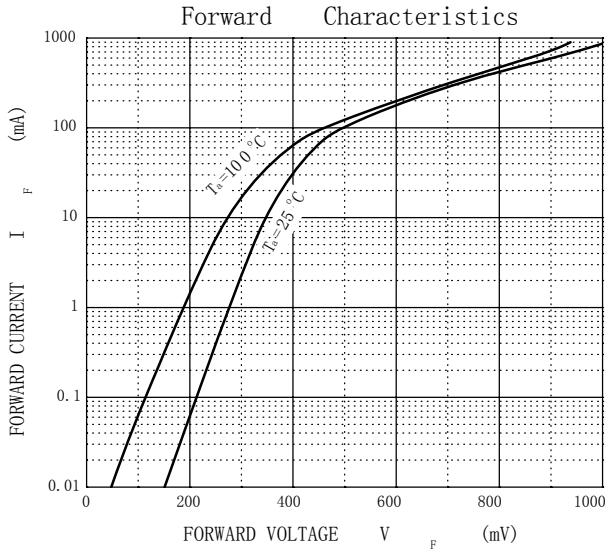
■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|-----------------------|--------|--|-----|-----|-----|------|
| Breakdown Voltage | VR | IR = 100 μA | 30 | | | V |
| Forward Voltage | VF | IF = 0.1 mA | | | 240 | mV |
| | | IF = 1 mA | | | 320 | mV |
| | | IF = 10 mA | | | 400 | mV |
| | | IF = 30 mA | | | 500 | mV |
| | | IF = 100 mA | | | 0.8 | V |
| Reverse Current | IR | VR = 25 V | | | 2 | μA |
| Total Capacitance | CT | VR = 1V, f = 1.0 MHz | | | 10 | pF |
| Reverse Recovery Time | tr | IF = IR = 10 mA, IRR = 1.0 mA, RL = 100Ω | | | 5 | ns |

■ Marking

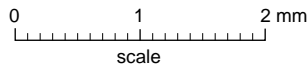
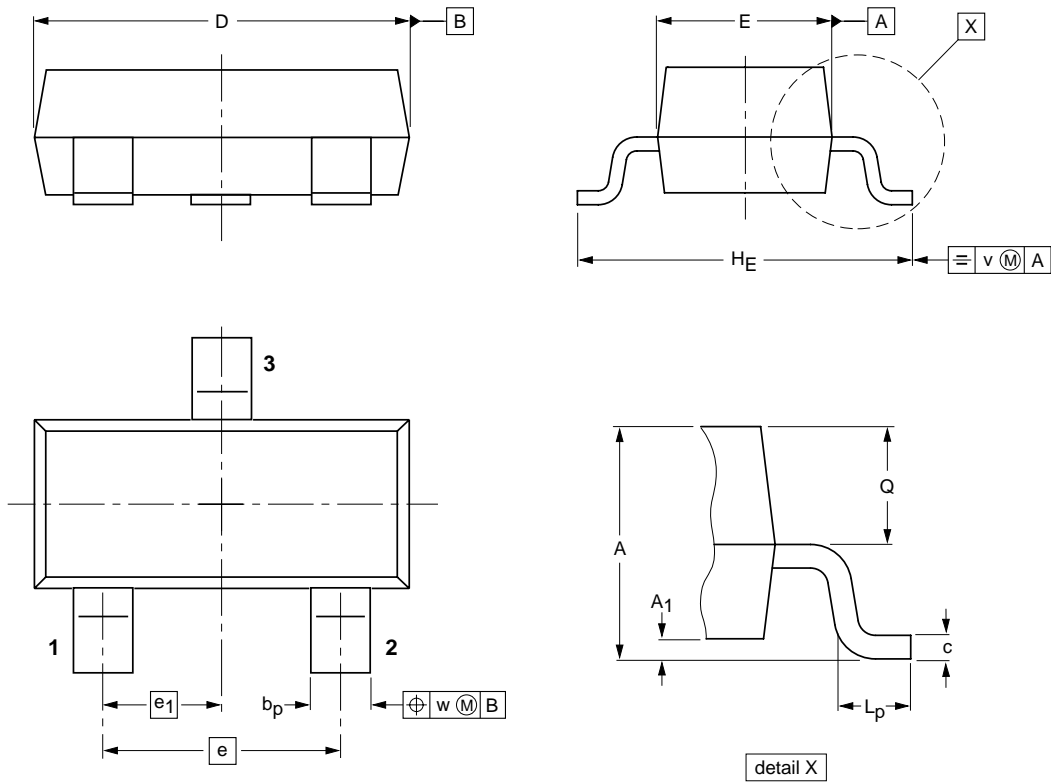
| TYPE | BAT54 | BAT54A | BAT54C | BAT54S |
|---------|-------|------------|------------|------------|
| Marking | L4 | L42 or KL2 | L43 or KL3 | L44 or KL4 |

■ Typical Characteristics



Package Outline

SOT-23



DIMENSIONS (mm are the original dimensions)

| UNIT | A | A ₁ max. | b _p | c | D | E | e | e ₁ | H _E | L _p | Q | v | w |
|------|------------|------------------------|----------------|--------------|------------|------------|-----|----------------|----------------|----------------|--------------|-----|-----|
| mm | 1.1 0.9 | 0.1 | 0.48 0.38 | 0.15 0.09 | 3.0 2.8 | 1.4 1.2 | 1.9 | 0.95 | 2.5 2.1 | 0.45 0.15 | 0.55 0.45 | 0.2 | 0.1 |

Summary of Packing Options

| Package | Packing Description | Packing Quantity | Industry Standard |
|---------|---------------------|------------------|-------------------|
| SOT-23 | Tape/Reel, 7" reel | 3000 | EIA-481-1 |

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