BAT54 SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts

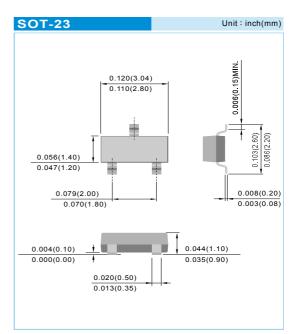
CURRENT 0.2 Amperes

FEATURES

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

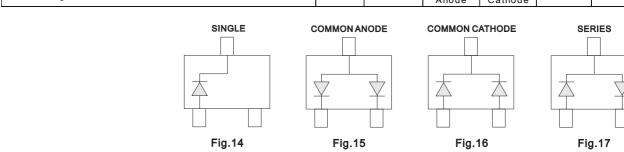
- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams



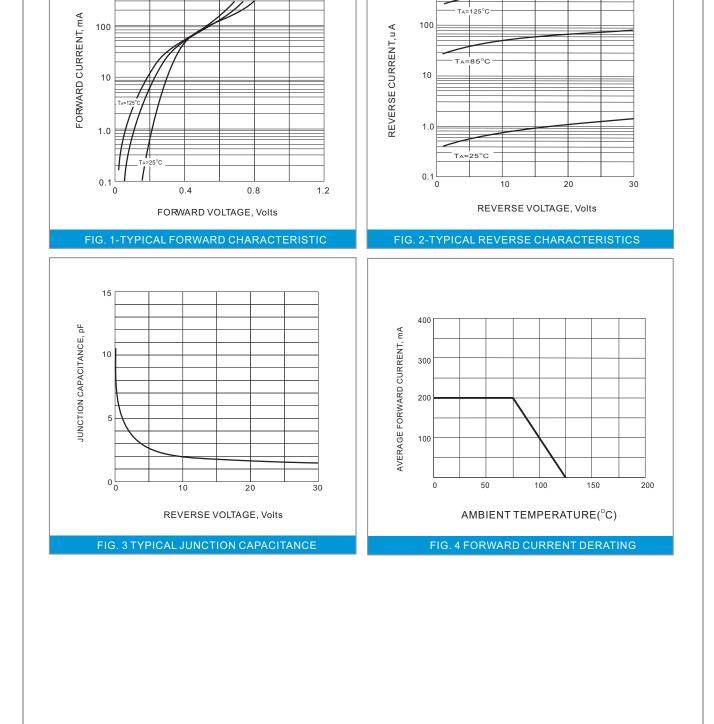
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

| Parameter | Symbol | BAT54 | BAT54A | BAT54C | BAT54S | Units | |
|--|-----------------------------------|-------------|-----------------|-------------------|--------|-------|--|
| Marking code | - | L4 | L42 | L43 | L44 | - | |
| Forward Power Dissipation@Ta=25°C | P _D | 225 | | | | | |
| Peak Repetitive Reverse Voltage | V _{RRM} | 30 | | | | | |
| Maximum Average Forward Current at TA=75°C | I _o | 0.2 | | | | | |
| Repetitive Peak Forward Current(tp=8.3ms,50%Duty Cycle) | I _{frm} | 300 | | | | | |
| Peak Forward Surge Current, 1.0s (JEDEC method) | I _{FSM} | 0.6 | | | | | |
| Maximum Instantaneous Forward Voltage @ I _F =1mA @ I _F =100mA | V _F | 0.32 0.8 | | | | | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage@V _R =25V | I _R | 2.0 | | | | | |
| Junction Capacitance at V _R =1V | C | 10 | | | | | |
| Thermal Resistance, Junction to Ambient | $R_{_{\thetaJA}}$ | 500 | | | | | |
| Operating Junction and Storage Temperature Range | T _J , T _{stg} | -55 TO +125 | | | | | |
| Circuit Figure | - | Single | Common Anode | Common Cathode | Series | - | |







1000



1000

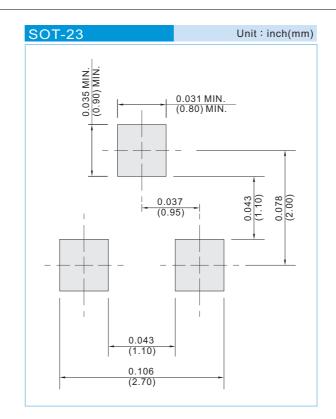
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information
T/R - 12K per 13" plastic Reel
T/R - 3K per 7" plastic Reel





Part No_packing code_Version BAT54_R1_00001 BAT54_R2_00001

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For example :

RB500V-40_R2_00001



| Packing Code XX | | | | | Version Code XXXXX | | | |
|---|----------------------|-------------------------------------|----------------------|------------|----------------------|---------------------------------------|--|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code | | |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | |
| Tube Packing (T/P) | т | 26mm | x | | | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | | | |





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