



BAT54WS

SURFACE MOUNT SCHOTTKY BARRIER

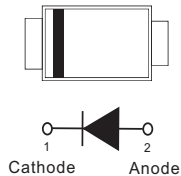
VOLTAGE 30 Volts **CURRENT** 0.2 Amperes

FEATURES

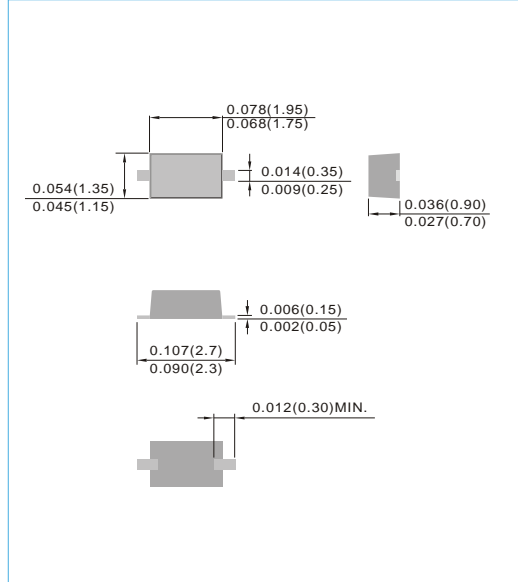
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0001 ounces, 0.0041 grams
- Polarity: Color band denotes cathode end



SOD-323 Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

For capacitive load, derate current by 20%.

| Parameter | Symbol | Value | Units |
|---|-----------------------------------|-------------|-------|
| Marking code | | L4 | |
| Peak Repetitive Reverse Voltage | V _{RRM} | 30 | V |
| Maximum Average Forward Current at T _A =75°C | I _{F(AV)} | 0.2 | A |
| Peak Forward Surge Current, 1s (JEDEC method) | I _{FSM} | 1 | A |
| Maximum Instantaneous Forward Voltage @ IF=1mA @ IF=100mA | V _F | 0.32 1 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ V _R =25V | I _R | 2 | μA |
| Junction Capacitance at V _R =1V | C _J | 10 | pF |
| Typical Thermal Resistance Junction to Ambient | R _{θJA} | 500 | °C/ W |
| Operating Junction Temperature and Storage Temperature Range | T _J , T _{STG} | -55 to +125 | °C |



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RATING AND CHARACTERISTIC CURVES

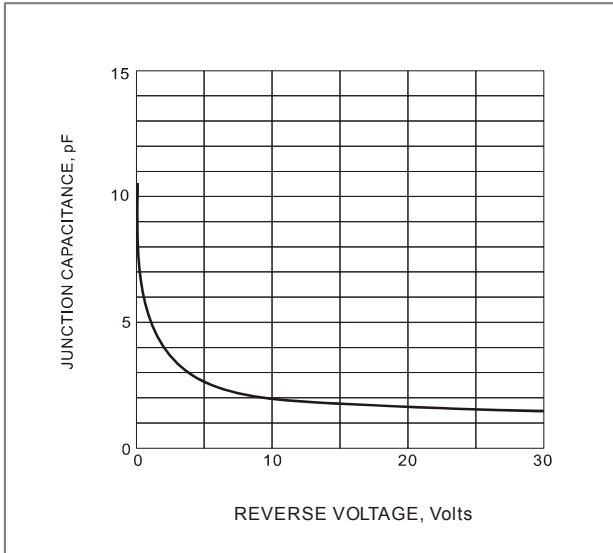


FIG. 1 TYPICAL JUNCTION CAPACITANCE

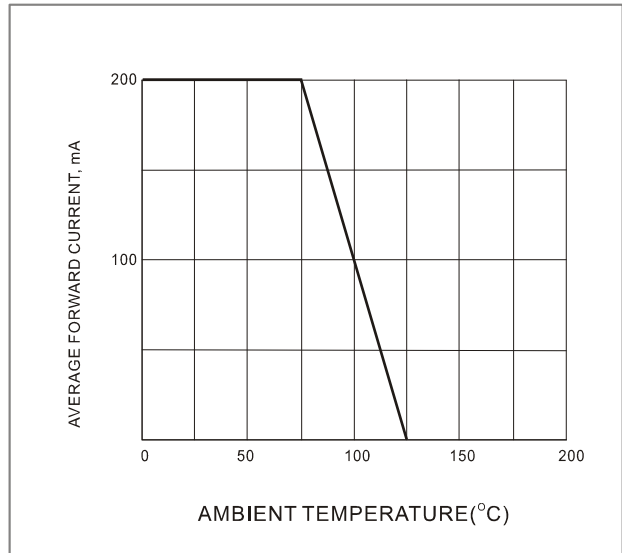


FIG. 2 FORWARD CURRENT DERATING

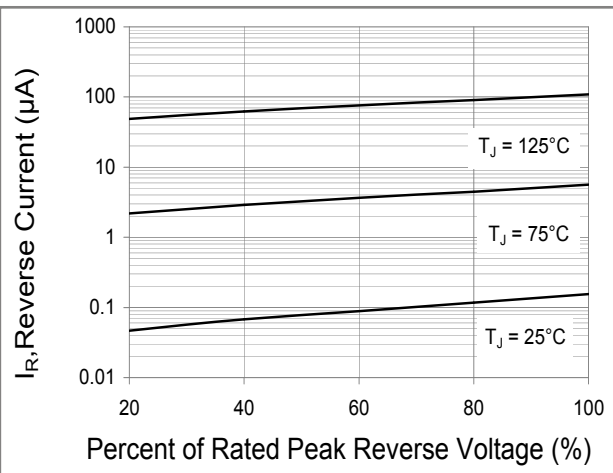


Fig.3 Typical Reverse Characteristics

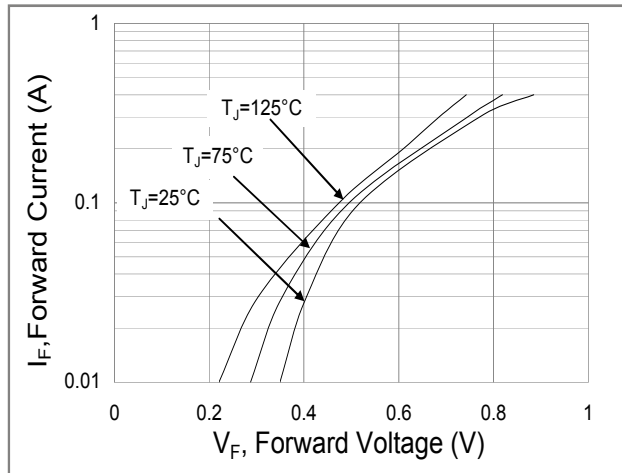


Fig.4 Typical Forward Characteristics

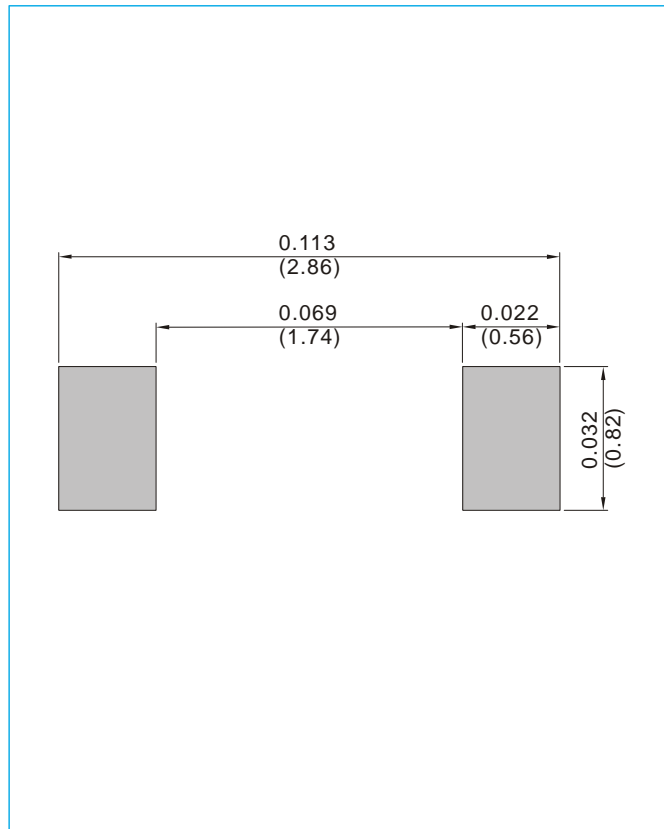


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MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel



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Part No_packing code_Version

BAT54WS_R1_00001

BAT54WS_R2_00001

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) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 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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