



## BAT60B

### Features

- Marking: W5
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- High Current Schottky Diode with low VF drop
- Low Voltage, Low Inductance
- For Power Supply
- For clamping and protection in low voltage application
- For detection and step-up conversion
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

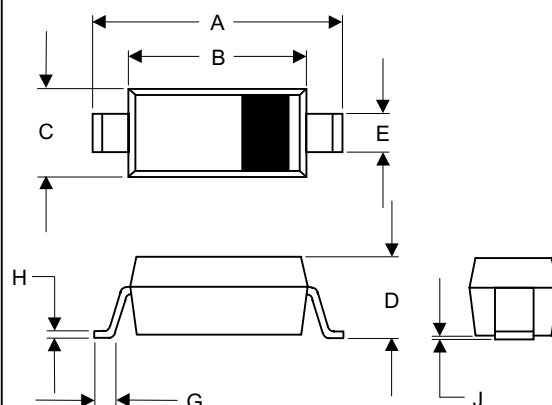
| Symbol     | Parameter                              | Rating      | Unit       |
|------------|----------------------------------------|-------------|------------|
| $V_{RM}$   | Peak Reverse Voltage                   | 10          | V          |
| $I_F$      | Peak Forward Current                   | 3           | A          |
| $I_{FSM}$  | Forward Surge Current, $t_p=10ms$      | 5           | A          |
| $P_d$      | Power Dissipation, $T_c=25^\circ C$    | 250         | mw         |
| $T_j$      | Junction Temperature                   | 150         | $^\circ C$ |
| $T_{STG}$  | Storage Temperature                    | -65 to +150 | $^\circ C$ |
| $R_{thja}$ | Thermal Resistance Junction to Ambient | 500         | K/W        |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter                                 | Min | Typ | Max | Units   |
|--------|-------------------------------------------|-----|-----|-----|---------|
| $V_F$  | Forward Voltage<br>( $I_F=10mA$ )         | --- | --- | 300 | mVdc    |
|        | ( $I_F=100mA$ )                           | --- | --- | 380 |         |
|        | ( $I_F=500mA$ )                           | --- | --- | 500 |         |
|        | ( $I_F=1000mA$ )                          | --- | --- | 600 |         |
| $I_R$  | Reverse Current<br>( $V_R=5V$ )           | --- | --- | 15  | $\mu A$ |
|        | ( $V_R=8V$ )                              | --- | --- | 25  |         |
| $C_T$  | Diode Capacitance<br>( $V_R=5V, f=1MHz$ ) | --- | --- | 30  | pF      |

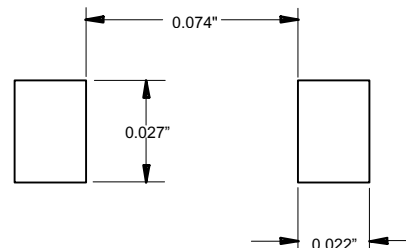
## Small Signal Schottky Diode

### SOD-323



| DIM | INCHES |      | MM   |      | NOTE |
|-----|--------|------|------|------|------|
|     | MIN    | MAX  | MIN  | MAX  |      |
| A   | .090   | .107 | 2.30 | 2.70 |      |
| B   | .063   | .071 | 1.60 | 1.80 |      |
| C   | .045   | .053 | 1.15 | 1.35 |      |
| D   | .031   | .045 | 0.80 | 1.15 |      |
| E   | .010   | .016 | 0.25 | 0.40 |      |
| G   | .004   | .018 | 0.10 | 0.45 |      |
| H   | .004   | .010 | 0.10 | 0.25 |      |
| J   | ----   | .006 | ---- | 0.15 |      |

### SUGGESTED SOLDER PAD LAYOUT



Ordering Information :

| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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