

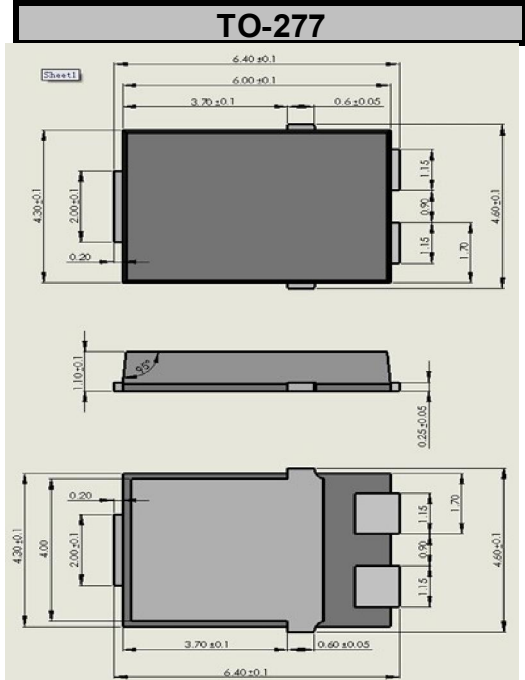
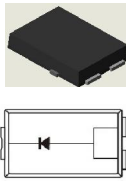
SB1045S SCHOTTKY BARRIER RECTIFIER

FEATURES

- Ideal for Automated Placement
- Very low profile-typical high of 1.10mm
- Low Power Losses,High Efficiency Operation
- Guardring for overvoltage protection
- Low Thermal Resistance Package
- High Operating Junction Temper:
- Plastic Case Material has UL Flammability Classification Rating 94V-O

MECHANICAL DATA

- Case: TO-277 molded Plastic
- Terminals:Solderable per MIL-STD-750,Method 2026
- Marking:SB1045
- Weight:0.092 grams(approx)
- Lead Free:For RoHS/Lead Free Version, Green molding compound as per IEC61249 Std



Maximum Ratings and Electrical Charateristics @T_A=25°C unless otherwise specified

| Characteristic | Symbol | VALUE | | | Unit | |
|---|--------------------|--|------|------|------|------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 45 | | | V | |
| Maximum RMS voltage | V _{RMS} | 32 | | | V | |
| Maximum DC blocking voltage | V _R | 45 | | | V | |
| Maximum average forward rectified current | I _{F(AV)} | 10 | | | A | |
| Peak forward surge current:8.3ms single half sine-wave superimposed on rated load | I _{Fsm} | 150 | | | A | |
| PARAMETER | Symbol | TEST CONDITIONS | MIN. | TYP. | MAX. | Unit |
| Breakdown voltage | V _{BR} | I _R =0.5mA T _A =25°C | 45 | — | — | V |
| Instantaneous forward voltage | V _F | I _F =2A T _A =25°C | — | 0.38 | — | V |
| | | I _F =5A T _A =25°C | — | 0.42 | — | |
| | | I _F =5A T _A =125°C | — | 0.48 | 0.55 | |
| Reverse current | I _R | V _R =36V T _A =25°C | — | 60 | — | uA |
| | | V _R =45V T _A =25°C | — | 0.10 | 0.20 | mA |
| | | V _R =45V T _A =125°C | — | 32 | — | mA |
| Typical Thermal Resistance(Note1) | R _{θJL} | 4 | | | °C/W | |
| | R _{θJA} | 60 | | | | |
| Operating temperature range | T _J | -40 to +150 | | | °C | |
| Storage temperature range | T _{STG} | -40 to +150 | | | °C | |

Note: (1)Mounted on 30mm X 30mm pad areas aluminum PCB (3).Pulse test:300us pulse width,1% duty cycle
 (2)Free air,mounted on recommended copper pad area (4).Pulse test:Pulse width ≤40ms

SB1045S SCHOTTKY BARRIER RECTIFIER

RATING AND CHARACTERISTIC CUEVES

