

1SS417TM

HIGH SPEED SWITCHING APPLICATION

FEATURES

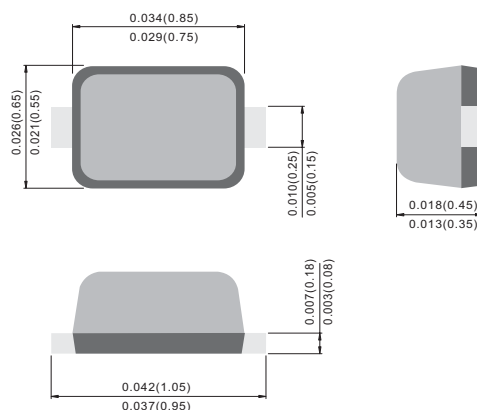
- Small package
- Low forward voltage : $V_F(3)=0.56V(\text{typ.})$
- Low reverse current : $I_R=5\mu A(\text{Max.})$
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case : SOD-923, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0004gram
- Marking : 4

SOD-923

Unit: inch (mm)



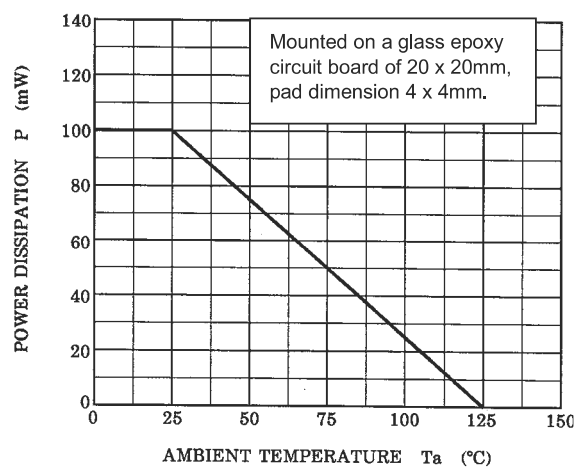
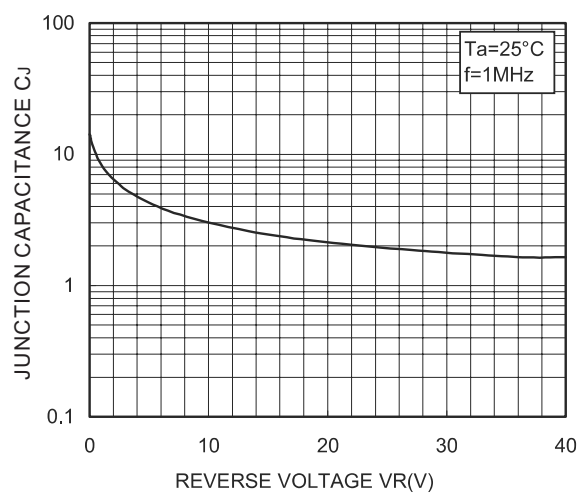
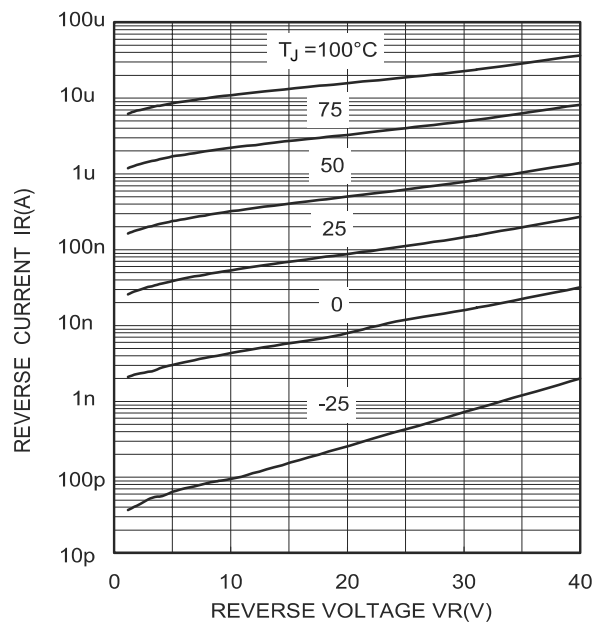
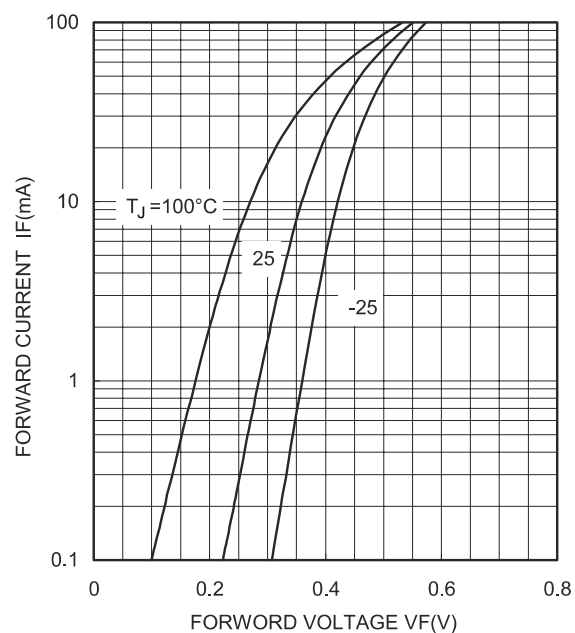
MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|----------------|--------------|--------------------|
| Maximum (Peak) Reverse Voltage | V_{RM} | 45 | V |
| Reverse Voltage | V_R | 40 | V |
| Maximum (Peak) Forward Current | I_{FSM} | 200 | mA |
| Average Forward Current | I_O | 100 | mA |
| Surge Current (10ms) | I_{FSM} | 1 | A |
| Power dissipation | P | 100 | mW |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to + 125 | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)

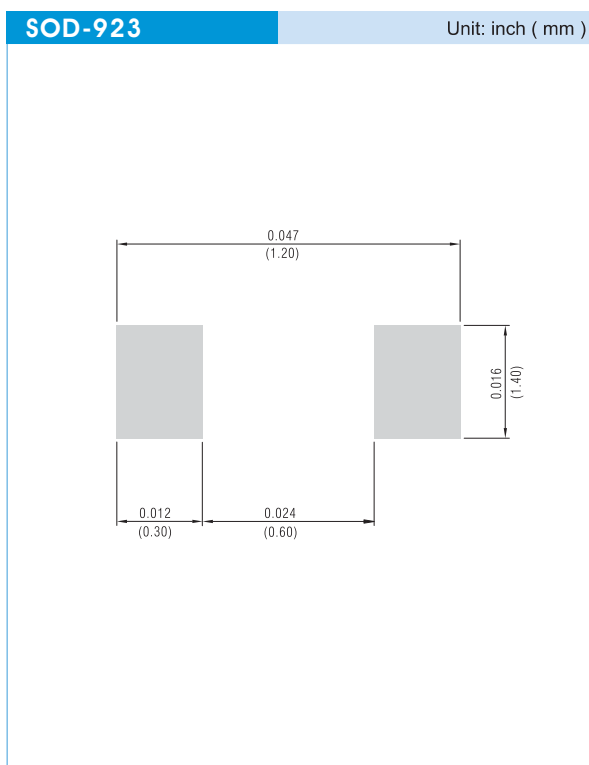
| CHARACTERISTIC | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|----------------------|----------|--------------------------|-----|------|------|---------------|
| Forward Voltage | V_{F1} | $I_F = 1\text{mA}$ | - | 0.28 | - | V |
| | V_{F2} | $I_F = 10\text{mA}$ | - | 0.36 | - | |
| | V_{F3} | $I_F = 50\text{mA}$ | - | 0.56 | 0.62 | |
| Reverse Current | I_R | $V_R = 40\text{V}$ | - | - | 5 | μA |
| Junction Capacitance | C_J | $V_R = 0, f=1\text{MHz}$ | - | 15 | - | pF |

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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