

SOD-882 Plastic Package Schottky Barrier Diode

Green Product



SOD882 Package



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Value | Units |
|-------------|--|-------------|------------------|
| P_D | Power Dissipation | 150 | mW |
| T_{STG} | Storage Temperature Range | -55 to +125 | $^\circ\text{C}$ |
| T_J | Operating Junction Temperature | +125 | $^\circ\text{C}$ |
| V_R | DC Reverse Voltage | 30 | V |
| $I_{F(AV)}$ | Average Forward Current | 200 | mA |
| I_{FSM} | Peak Forward Surge Current (At 8.3ms single half sine-wave) | 0.5 | A |

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

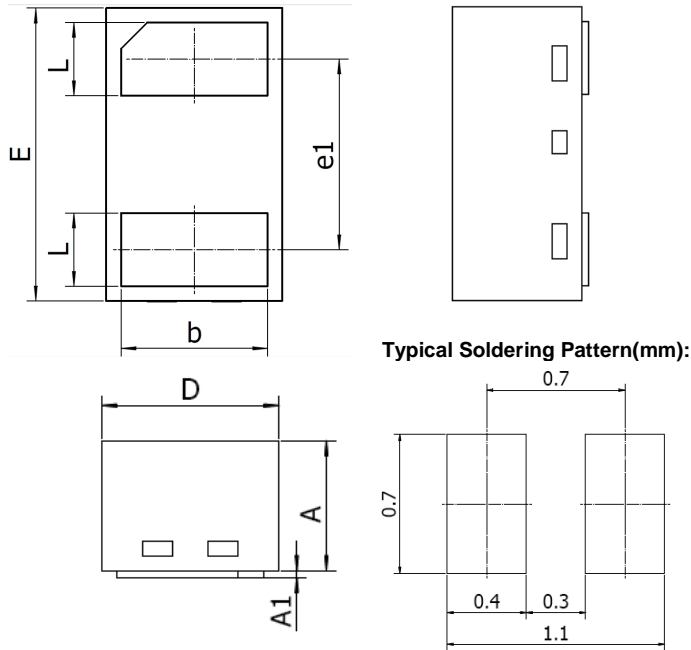
- § Low Forward Voltage Drop
- § Small Surface Mounting Type (DFN1006)
- § RoHS Compliant
- § Green EMC
- § Matte Tin(Sn) Lead Finish
- § Band Indicates Cathode
- § Weight: approx. 0.001g

DEVICE MARKING CODES:

| Device Type | Marking | Shipping |
|-------------|---------|--------------------|
| RB520S8-30 | E | 10,000/Tape & Reel |

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Test Condition | Limits | | Unit |
|--------|-------------------------|--------------------|--------|------|---------------|
| | | | Min | Max | |
| I_R | Reverse Leakage Current | $V_R=10\text{V}$ | | 1 | μA |
| V_F | Forward Voltage | $I_F=10\text{mA}$ | | 0.45 | Volts |
| | | $I_F=200\text{mA}$ | | 0.60 | Volts |

SOD882 Package Outline


| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|------------|-------|
| | MIN | MAX | MIN | MAX |
| A | 0.46 | 0.50 | 0.018 | 0.020 |
| A1 | --- | 0.03 | --- | 0.001 |
| b | 0.45 | 0.55 | 0.018 | 0.022 |
| D | 0.55 | 0.65 | 0.022 | 0.026 |
| E | 0.95 | 1.05 | 0.037 | 0.041 |
| e1 | Typ. 0.65 | | Typ. 0.026 | |
| L | 0.20 | 0.30 | 0.008 | 0.012 |

NOTICE

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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