

Surface Mount Schottky Barrier Diodes

(Pb) Lead(Pb)-Free

Feature:

- * Silicon Epitaxial Planar
- * Extremelysmall Surface Mounting Type. (SOD-882)
- * Low Vf
- * High Reliability
- * We Declare That The Material of Product Compliance With RoHS Requirements

Applications:

- * Low Current Rectification

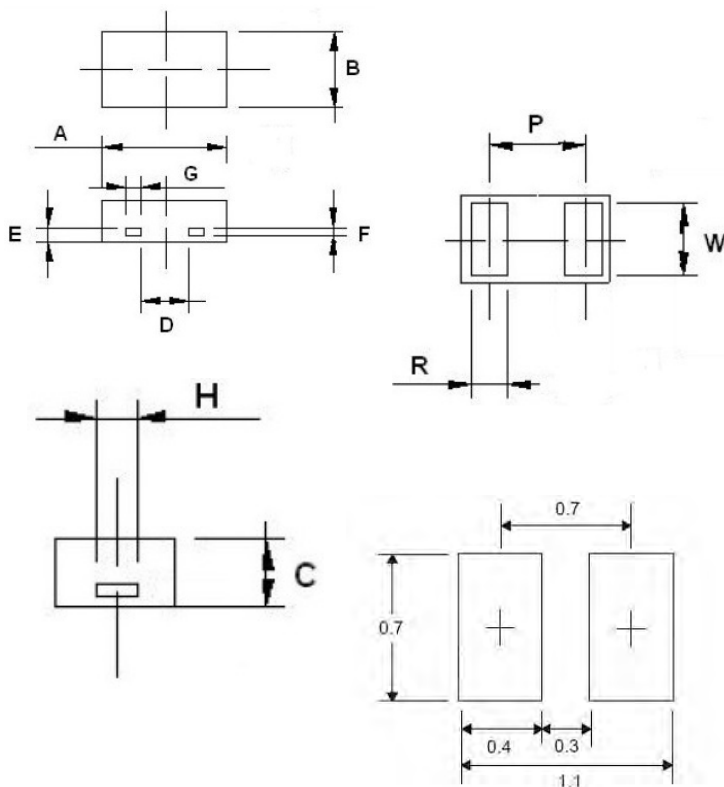
**SMALL SIGNAL
SCHOTTKY DIODES
30m AMPERES
40 VOLTS**



SOD-882

SOD-882 Outline Dimensions

Unit:mm



SOLDERING FOOTPRINT

| MILLIMETERS | | | |
|-------------|--------|--------|------|
| DIM | MIN | NOM | MAX |
| A | 0.95 | 1.00 | 1.05 |
| B | 0.55 | 0.60 | 0.65 |
| C | 0.465 | 0.4825 | 0.5 |
| D | 0.39 | | |
| E | 0.127 | | |
| F | 0.0635 | | |
| G | 0.12 | | |
| H | 0.20 | | |
| P | 0.64 | | |
| R | 0.2 | 0.25 | 0.3 |
| W | 0.44 | 0.49 | 0.54 |

Maximum Ratings ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

| Characteristic | Symbol | Value | Unit |
|--|-----------|-------------|--------------------|
| Reverse Voltage (Repetitive Peak) | V_{RM} | 40 | V |
| DC Reverse Voltage | V_R | 30 | V |
| Average Rectifier Forward Current | I_O | 30 | mA |
| Peak Forward Surge Current (60Hz • 1cyc) | I_{FSM} | 200 | mA |
| Operation Junction Temperature Range | T_J | 125 | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_{stg} | -40 to +125 | $^{\circ}\text{C}$ |

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|---|--------|-----|-----|------|---------------|
| Forward Voltage $I_F=1\text{mA}$ | V_F | - | - | 0.37 | V |
| Reverse Leakage $V_R=30\text{V}$ | I_R | - | - | 0.5 | μA |
| Capacitance Between Terminals $V_R=1\text{V}, f=1\text{MHz}$ | C_t | - | 2 | - | pF |

Device Marking

| Item | Marking | Equivalent Circuit diagram |
|----------|---------|----------------------------|
| WSD751BS | 5 | |

Electrical Characteristic Curves

