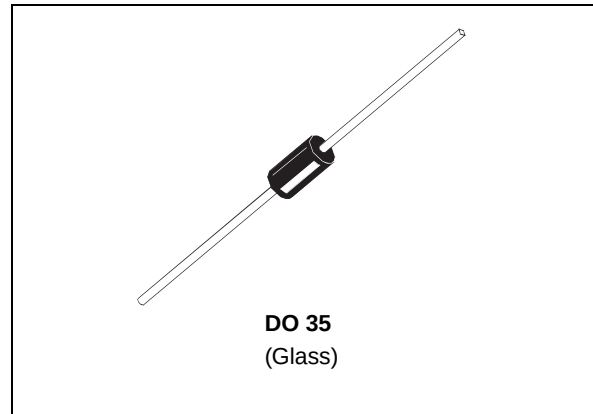


**BAT46**

## SMALL SIGNAL SCHOTTKY DIODE

### DESCRIPTION

General purpose, metal to silicon diode featuring high breakdown voltage low turn-on voltage.



### ABSOLUTE RATINGS (limiting values)

| Symbol             | Parameter                                                     |                                            | Value                          | Unit               |
|--------------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------|--------------------|
| $V_{RRM}$          | Repetitive Peak Reverse Voltage                               |                                            | 100                            | V                  |
| $I_F$              | Forward Continuous Current*                                   | $T_a = 25\text{ }^{\circ}\text{C}$         | 150                            | mA                 |
| $I_{FRM}$          | Repetitive Peak Forward Current*                              | $t_p \leq 1\text{ s}$<br>$\delta \leq 0.5$ | 350                            | mA                 |
| $I_{FSM}$          | Surge non Repetitive Forward Current*                         | $t_p = 10\text{ ms}$                       | 750                            | mA                 |
| $P_{tot}$          | Power Dissipation*                                            | $T_l = 80\text{ }^{\circ}\text{C}$         | 150                            | mW                 |
| $T_{stg}$<br>$T_j$ | Storage and Junction Temperature Range                        |                                            | - 65 to + 150<br>- 65 to + 125 | $^{\circ}\text{C}$ |
| $T_L$              | Maximum Temperature for Soldering during 10s at 4mm from Case |                                            | 230                            | $^{\circ}\text{C}$ |

### THERMAL RESISTANCE

| Symbol        | Test Conditions   | Value | Unit                 |
|---------------|-------------------|-------|----------------------|
| $R_{th(j-a)}$ | Junction-ambient* | 300   | $^{\circ}\text{C/W}$ |

\* On infinite heatsink with 4mm lead length.