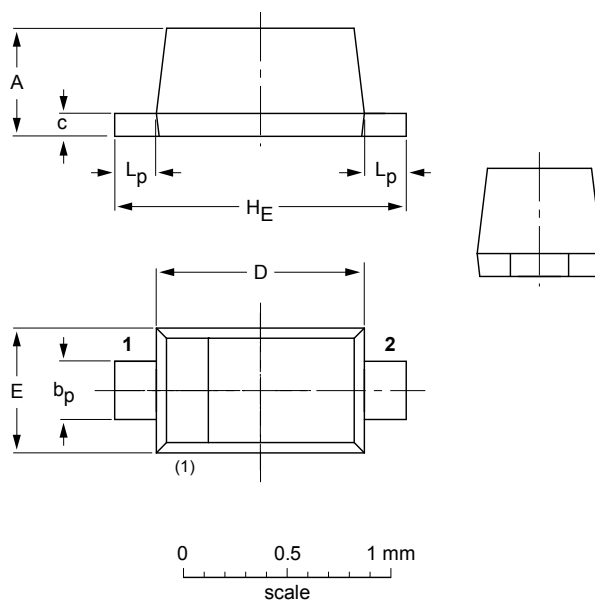


### FEATURES

- Small surface mounting type
- High reliability

MARKING: F

### SOD-723



DIMENSIONS (mm are the original dimensions)

| UNIT | A            | bp           | c            | D            | E            | HE           | Lp           |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| mm   | 0.55<br>0.49 | 0.32<br>0.25 | 0.15<br>0.08 | 1.05<br>0.95 | 0.65<br>0.55 | 1.45<br>1.35 | 0.27<br>0.13 |

### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

| Parameter                                           | Symbol          | Limit      | Unit |
|-----------------------------------------------------|-----------------|------------|------|
| DC reverse voltage                                  | $V_R$           | 30         | V    |
| Mean rectifying current                             | $I_O$           | 200        | mA   |
| Non-repetitive Peak forward surge current @ t=8.3ms | $I_{FSM}$       | 1          | A    |
| Power dissipation                                   | $P_D$           | 100        | mW   |
| Thermal Resistance Junction to Ambient              | $R_{\theta JA}$ | 1000       | °C/W |
| Operating Junction Temperature Range                | $T_j$           | -40 ~ +125 | °C   |
| Storage Temperature Range                           | $T_{stg}$       | -55 ~ +150 | °C   |

# RB521G-30

## Electrical Ratings @Ta=25°C

| Parameter       | Symbol   | Min | Typ | Max  | Unit          | Conditions         |
|-----------------|----------|-----|-----|------|---------------|--------------------|
| Forward voltage | $V_{F1}$ |     |     | 0.35 | V             | $I_F=10\text{mA}$  |
|                 | $V_{F2}$ |     |     | 0.5  | V             | $I_F=200\text{mA}$ |
| Reverse current | $I_R$    |     |     | 10   | $\mu\text{A}$ | $V_R=10\text{V}$   |

## RATING AND VCHARACTERISTIC CURVES(RB521G-30)

