



## SOD-323 Plastic-Encapsulate Diodes

### 1SS404 High Speed SWITCHING Diodes

SOD-323



#### FEATURES

- Small surface mounting type
- High Speed
- High reliability with high surge current handling capability

MARKING:S51

#### Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25°C

| Parameter               | Symbol           | Limits   | Unit |
|-------------------------|------------------|----------|------|
| Peak reverse voltage    | V <sub>RM</sub>  | 25       | V    |
| DC reverse voltage      | V <sub>R</sub>   | 20       | V    |
| Peak forward current    | I <sub>FM</sub>  | 700      | mA   |
| Mean rectifying current | I <sub>O</sub>   | 300      | mA   |
| Junction temperature    | T <sub>j</sub>   | 125      | °C   |
| Storage temperature     | T <sub>stg</sub> | -55~+125 | °C   |

#### Electrical Ratings @T<sub>A</sub>=25°C

| Parameter                     | Symbol          | Min. | Typ. | Max. | Unit | Conditions                 |
|-------------------------------|-----------------|------|------|------|------|----------------------------|
| Forward voltage               | V <sub>F1</sub> |      | 0.16 |      | V    | I <sub>F</sub> =1mA        |
|                               | V <sub>F2</sub> |      | 0.22 |      | V    | I <sub>F</sub> =10mA       |
|                               | V <sub>F3</sub> |      | 0.38 | 0.45 | V    | I <sub>F</sub> =300mA      |
| Reverse current               | I <sub>R</sub>  |      |      | 50   | μA   | V <sub>R</sub> =20V        |
| Capacitance between terminals | C <sub>T</sub>  |      | 46   |      | pF   | V <sub>R</sub> =0V, f=1MHZ |

# Typical Characteristics

1SS404

