



## ESD Protection Diode

### Features

- For sensitive ESD protection
- Low leakage
- Bi-directional ESD protection of one line
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** B5

# ESD5V0D5B

Electrical Characteristics  $T_a=25$  Unless otherwise specified

| PARAMETER                | Symbol     | UNIT | Conditions       | Min | Typ | Max |
|--------------------------|------------|------|------------------|-----|-----|-----|
| Reverse Standoff Voltage | $V_{RWM}$  | V    |                  |     |     | 5.0 |
| Reverse Leakage Current  | $I_R$      | uA   | $V_{RWM}=5.0V$   |     |     | 1   |
| Breakdown Voltage        | $V_{(BR)}$ | V    | $I_T=1mA$        | 5.8 |     | 8.7 |
| Clamping Voltage         | $V_C$      | V    | $I_{PP}=8A$      |     |     | 16  |
| Junction Capacitance     | $C_J$      | pF   | $V_R=0V, f=1MHz$ |     | 35  | 45  |

(1).Other voltages available upon request.

(2).Non-repetitive current pulse 8/20 - s exponential decay waveform according to IEC61000-4-5

Ordering Information (Example)

| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|--------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| ESD5V0D5B    | F2           | Approximate 0.002 | 8000                 | 80000                   | 320000                     | 7" reel       |

Characteristics (Typical)



### ■ Outline Dimensions

### v Soldering Footprint



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