

1SS286

Silicon Schottky Barrier Diode for Various Detector, High Speed Switching

REJ03G0142-0300 Rev.3.00 May 24, 2007

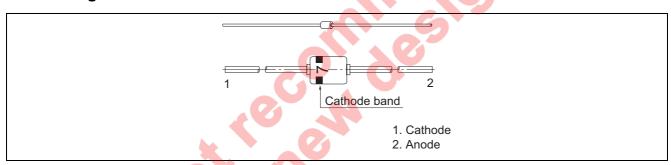
Features

- Very low reverse current.
- Detection efficiency is very good.
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

| Part No. | Cathode | Mark | Package Name | Package Code |
|----------|---------|------|--------------|--------------|
| 1SS286 | GREEN | 7 | MHD | GRZZ0002ZC-A |

Pin Arrangement



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

| Item | Symbol | Value | Unit |
|----------------------|-------------------|-------------|------|
| Reverse voltage | V _R | 25 | V |
| Forward current | I _F 35 | | mA |
| Power dissipation | Pd | 150 | mW |
| Junction temperature | Tj | 100 | °C |
| Storage temperature | Tstg | -55 to +100 | °C |

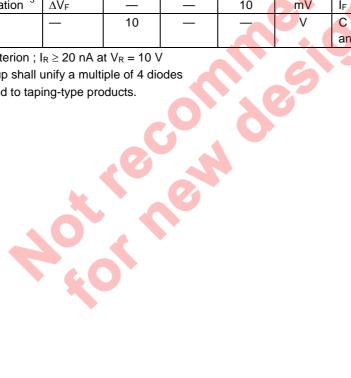
Electrical Characteristics

 $(Ta = 25^{\circ}C)$

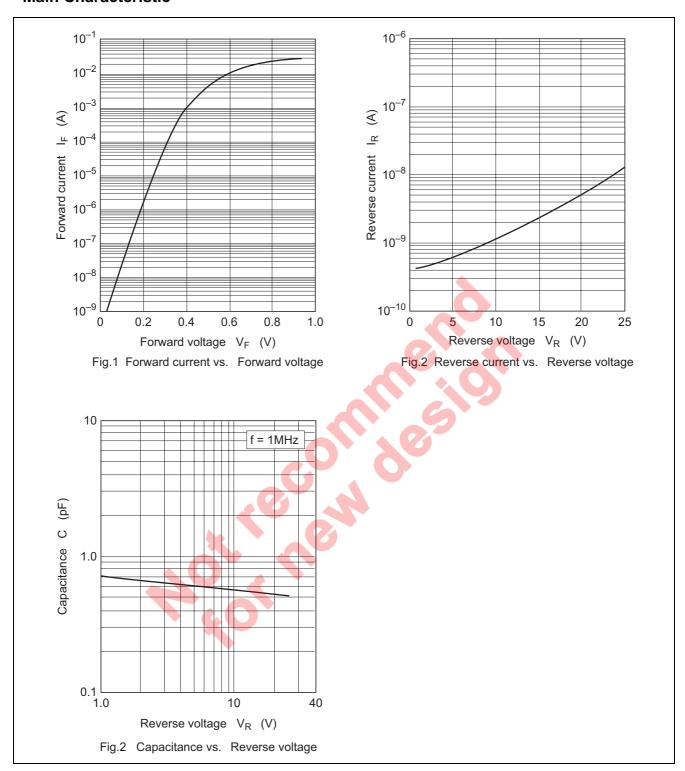
| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|------------------------------|----------------|-----|-----|------|----------|---|
| Forward voltage | V _F | _ | _ | 0.60 | V | I _F = 10 mA |
| Reverse voltage | V_R | 25 | _ | _ | V | $I_F = 10 \mu A$ |
| Reverse current | I _R | _ | _ | 10 | nA | V _R = 10 V |
| Capacitance | С | _ | _ | 1.20 | pF | $V_R = 0 \text{ V, f} = 1 \text{ MHz}$ |
| Capacitance deviation *3 | ΔC | _ | _ | 0.10 | pF | $V_R = 0 V, f = 1 MHz$ |
| Forward voltage deviation *3 | ΔV_{F} | _ | _ | 10 | mV | $I_F = 10 \text{mA}$ |
| ESD-Capability *1 | _ | 10 | _ | | V | $C = 200 \text{ pF}, R = 0 \Omega$, Both forward |
| | | | | | . | and reverse direction 1 pulse. |

Notes: 1. Failure criterion ; $I_R \ge 20 \text{ nA}$ at $V_R = 10 \text{ V}$

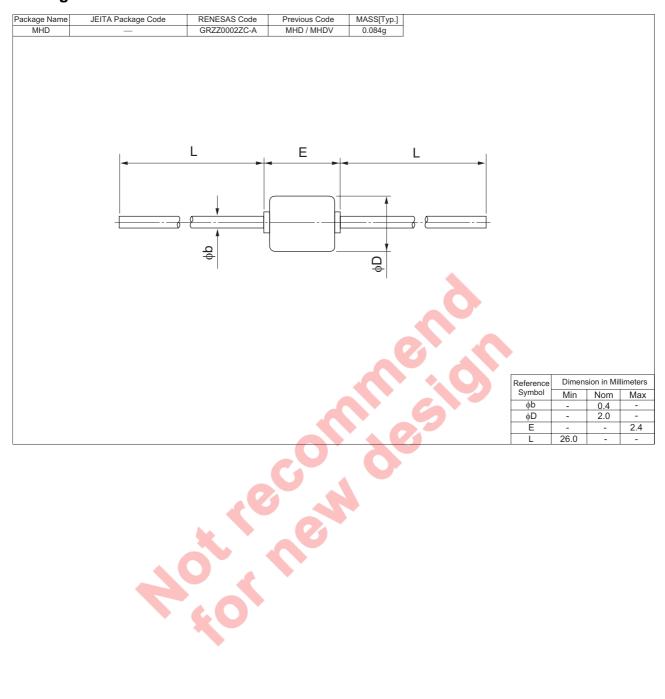
- 2. Each group shall unify a multiple of 4 diodes
- 3. Not applied to taping-type products.



Main Characteristic



Package Dimensions



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