Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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HSM2836C

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G0554-0500 Rev.5.00 Dec 12, 2008

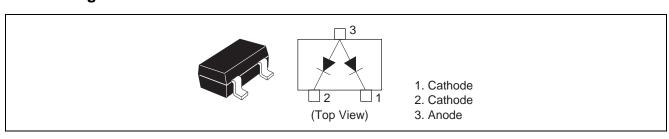
Features

- Fast recovery time. (trr = 20ns max)
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

| Part No | Laser Mark | Package Name | Package Code | Taping Abbreviation (Quantity) |
|------------|------------|--------------|--------------|-----------------------------------|
| HSM2836CTL | A4 | MPAK | PLSP0003ZC-A | TL (3,000 pcs / reel) |
| HSM2836CTR | A4 | MPAK | PLSP0003ZC-A | TR (3,000 pcs / reel) |

Pin Arrangement



Absolute Maximum Ratings *1

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

| Item | Symbol | Value | Unit |
|---|---------------------------------|-------------|------|
| Peak reverse voltage | V_{RM} | 85 | V |
| Reverse voltage | V_R | 80 | V |
| Peak forward current | I _{FM} | 300 | mA |
| Non-Repetitive peak forward surge current | I _{FSM} * ² | 4 | А |
| Average rectified current | l ₀ | 100 | mA |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

Notes: 1. Per one device.

2. Within 1 μs forward surge current.

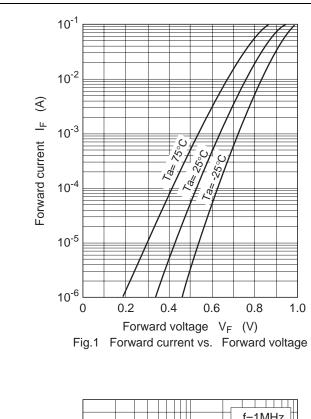
Electrical Characteristics *1

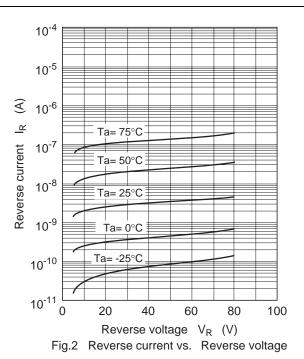
 $(Ta = 25^{\circ}C)$

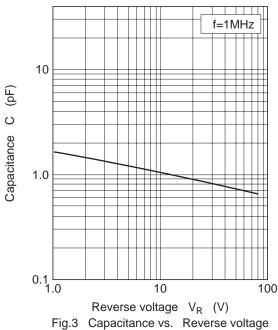
| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|-----------------------|-----------------|-----|------|-----|------|---|
| Forward voltage | V _F | _ | 0.72 | 1.0 | V | I _F = 10 mA |
| | V _F | _ | 0.83 | 1.0 | V | I _F = 50 mA |
| | V _F | _ | 0.90 | 1.2 | V | I _F = 100 mA |
| Reverse current | I _R | _ | _ | 0.1 | μΑ | V _R =80 V |
| Capacitance | С | _ | 2.5 | 4.0 | pF | V _R = 0 V, f = 1 MHz |
| Reverse recovery time | t _{rr} | 1 | | 20 | ns | I_F = 10 mA, V_R = 6 V, R_L = 50 Ω |

Note: 1. Per one device.

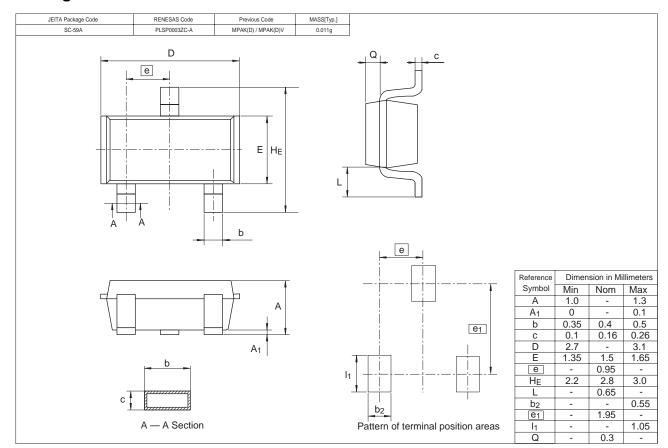
Main Characteristics







Package Dimensions



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- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

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