

RKP201KL

Silicon Epitaxial Trench Pin Diode for Antenna Switching

REJ03G1225-0200 Rev.2.00 Sep 06, 2005

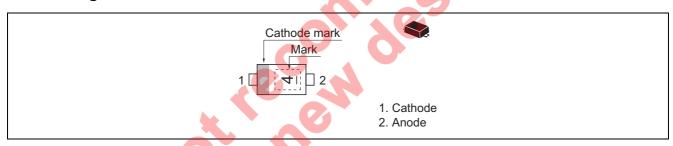
Features

- Adopting the trench structure minimize terminal capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = $2.0 \Omega \text{ max}$)
- Low operation current.
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

| Type No. | Laser Mark | Package Name | Package Code (Previous Code) |
|----------|------------|--------------|---------------------------------|
| RKP201KL | 4 | EFP | PXSF0002ZA-A |
| | | | (EFP) |

Pin Arrangement



Absolute Maximum Ratings

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

| Item | Symbol | Value | Unit |
|----------------------|----------------|-------------|------|
| Reverse voltage | V _R | 30 | V |
| Forward current | I _F | 100 | mA |
| Power dissipation | Pd | 100 | mW |
| Junction temperature | Тј | 125 | °C |
| Storage temperature | Tstg | −55 to +125 | °C |

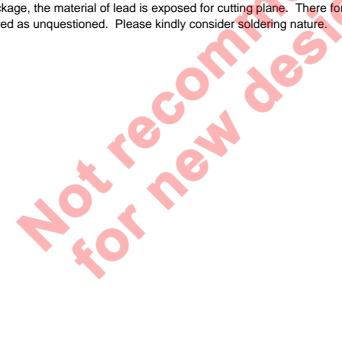
Electrical Characteristics

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

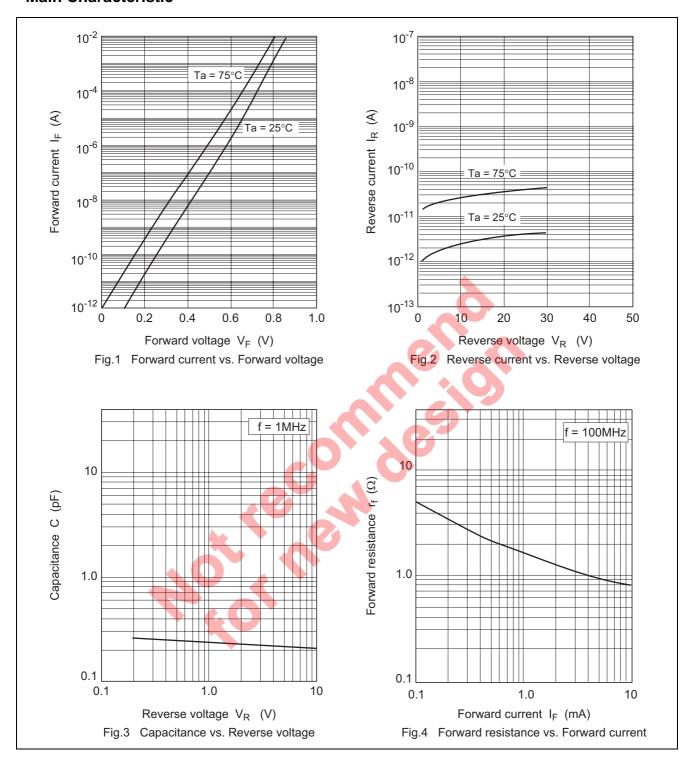
| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|--------------------|----------------|-----|-----|------|------|---|
| Reverse current | I _R | _ | _ | 100 | nA | V _R = 30 V |
| Forward voltage | V _F | _ | _ | 0.9 | V | $I_F = 2 \text{ mA}$ |
| Capacitance | С | _ | _ | 0.35 | pF | $V_R = 1 \text{ V}, f = 1 \text{ MHz}$ |
| Forward resistance | r _f | _ | _ | 2.0 | Ω | I _F = 2 mA, f = 100 MHz |
| ESD-Capability *1 | _ | 100 | _ | _ | V | $C = 200 \text{ pF}, R = 0 \Omega$, Both forward |
| | | | | | | and reverse direction 1 pulse. |

Notes: 1. Failure criterion; $I_R > 100 \text{ nA}$ at $V_R = 30 \text{ V}$

2. EFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



Main Characteristic



Package Dimensions



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Renesas Technology Korea Co., Ltd.Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> 2-796-3115, Fax: <82> 2-796-2145

Renesas Technology Malaysia Sdn. Bhd.

Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510

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April 1st, 2010 Renesas Electronics Corporation

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