

RKP300WKQE

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1730-0100 Rev.1.00 Aug 21, 2008

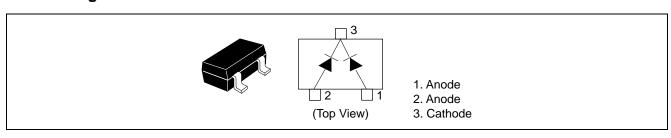
Features

- Suitable for an antenna switches of wireless LAN and a cordless telephone.
- Super -Low capacitance.(C = 0.25 pF max)
- Low forward resistance. (rf = $3.7 \Omega \text{ max}$)
- CMPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

| Part No. | Laser Mark | Package Name | Package Code |
|------------|------------|--------------|--------------|
| RKP300WKQE | P8 | CMPAK | PTSP0003ZB-A |

Pin Arrangement



Absolute Maximum Ratings

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

| Item | Symbol | Value | Unit |
|----------------------|----------------|-------------|------|
| Reverse voltage | V _R | 30 | V |
| Forward current | I _F | 50 | mA |
| Power dissipation | Pd * | 200 | mW |
| Junction temperature | Тј | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

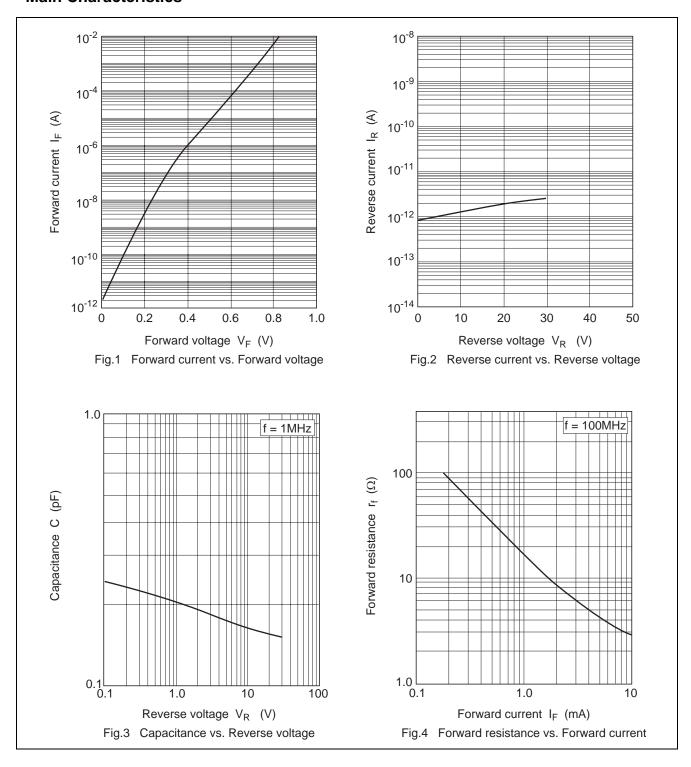
Note: Per one device 100 mW.

Electrical Characteristics

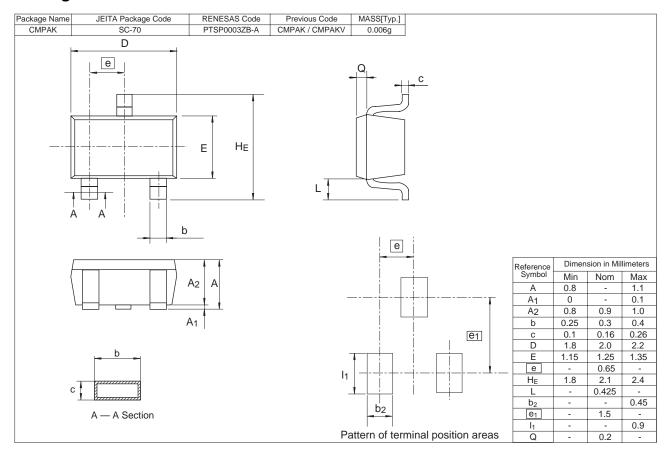
 $(Ta = 25^{\circ}C)$

| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|--------------------|----------------|-----|-----|------|------|-------------------------------------|
| Reverse current | I _R | _ | _ | 100 | nA | V _R = 30 V |
| Forward voltage | V _F | _ | _ | 1.0 | V | I _F = 10 mA |
| Capacitance | С | _ | _ | 0.25 | pF | V _R = 20 V, f = 1 MHz |
| Forward resistance | r _f | _ | _ | 3.7 | Ω | I _F = 10 mA, f = 100 MHz |

Main Characteristics



Package Dimensions



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