

RKV653KL

Variable Capacitance Diode for Digital audio

REJ03G1357-0100 Rev.1.00 Jul 03, 2006

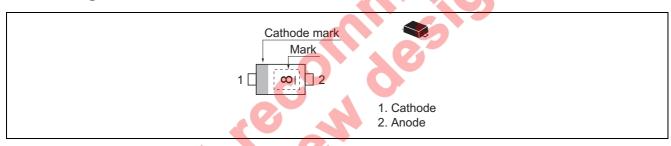
Features

- Most suitable for terrestrial digital TV broadcasts capable Mobile phones.
- High capacitance ratio. (n = 2.40 to 3.05)
- Low series resistance. (rs = $1.8 \Omega \text{ max}$)
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

| Type No. | Laser Mark | Package Name | Package Code | |
|----------|------------|--------------|--------------|--|
| RKV653KL | 8 | EFP | PXSF0002ZA-A | |

Pin Arrangement



Absolute Maximum Ratings

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

| Item | Symbol | Value | Unit |
|----------------------|--------|-------------|------|
| Reverse voltage | V_R | 10 | V |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

Electrical Characteristics

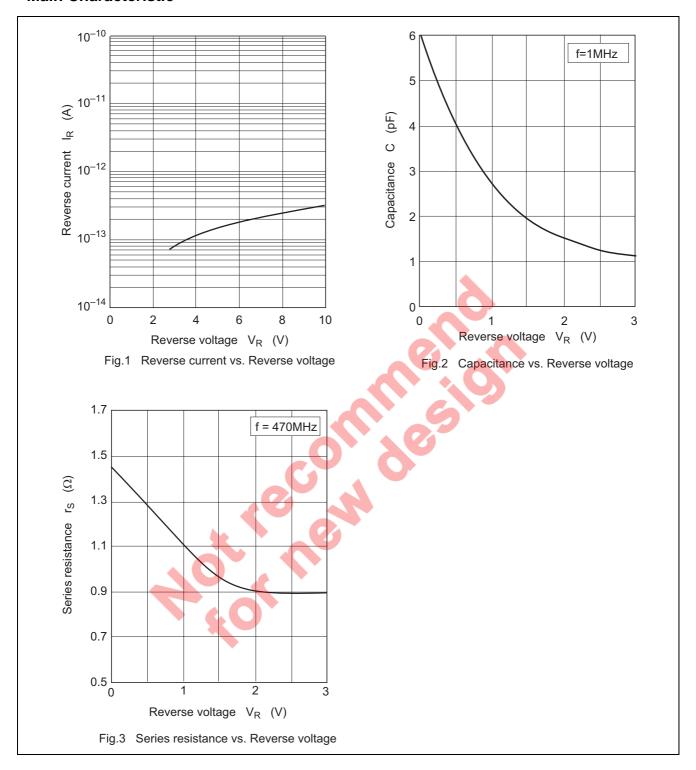
 $(Ta = 25^{\circ}C)$

| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|-------------------|-----------------|------|-----|------|------|---|
| Reverse current | I _{R1} | _ | _ | 10 | nA | V _R = 10 V |
| | I _{R2} | _ | _ | 100 | | $V_R = 10 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$ |
| Capacitance | C ₁ | 2.60 | _ | 2.90 | pF | V _R = 1 V, f = 1 MHz |
| | C ₃ | 0.97 | _ | 1.08 | | $V_R = 3 V, f = 1 MHz$ |
| Capacitance ratio | n | 2.40 | _ | 3.05 | _ | C ₁ /C ₃ |
| Series resistance | r _S | _ | _ | 1.8 | Ω | V _R = 1 V, f =470 MHz |

Note: For 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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April 1st, 2010 Renesas Electronics Corporation

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