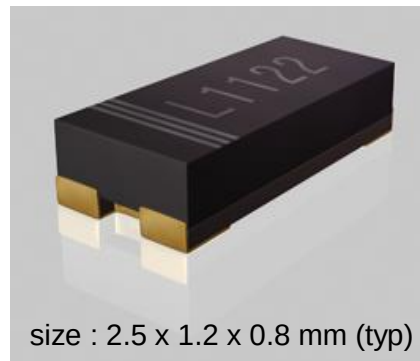


## PIN Diode

### ■ FEATURES

- High Power Handling for VHF/UHF band
- Low Capacitance at Zero Bias,  
Extremely Small Reverse Bias
- Low Series Resistance
- Very Low Insertion Loss, High Isolation
- RoHS Compliant
- Lead Free / Halogen Free



size : 2.5 x 1.2 x 0.8 mm (typ)

### ■ MECHANICAL DATA

- Case : 2512(1005) molded plastic package.
- Terminals : Gold plated, solderable per  
MIL-STD-750, method 2026
- Polarity : Indicated by cathode band.

### ■ DESCRIPTIONS

The L5204F PIN diode is designed for high power antenna switches in two-way radios.

Suitable for RFID reader and writer application.

### ■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

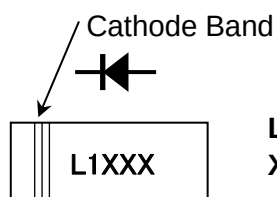
| SYMBOL                 | PARAMETER                 | RATING     | UNITS |
|------------------------|---------------------------|------------|-------|
| <b>V<sub>R</sub></b>   | Reverse Voltage           | 180        | V     |
| <b>P<sub>D</sub> *</b> | Power Dissipation         | 500        | mW    |
| <b>T<sub>j</sub></b>   | Junction Temperature      | 150        | °C    |
| <b>T<sub>stg</sub></b> | Storage Temperature Range | -55 to 150 | °C    |

\*) Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm)

### ■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

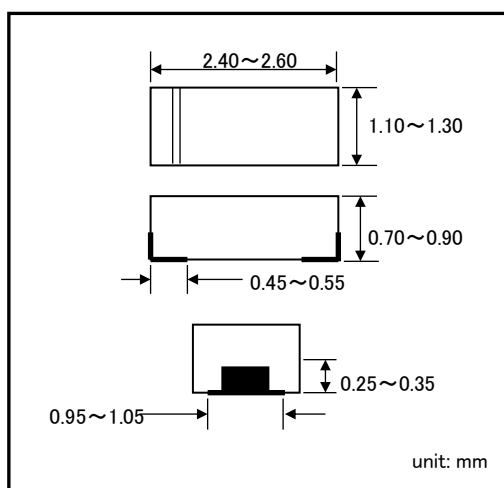
| SYMBOL                | PARAMETER                 | CONDITIONS                              | LIMITS |     |      | UNITS |
|-----------------------|---------------------------|-----------------------------------------|--------|-----|------|-------|
|                       |                           |                                         | MIN    | TYP | MAX  |       |
| <b>I<sub>R</sub></b>  | Reverse Current           | <b>V<sub>R</sub></b> = 180V             | -      | -   | 10   | μA    |
| <b>V<sub>F</sub></b>  | Forward Voltage           | <b>I<sub>F</sub></b> = 100mA            | -      | -   | 1.0  | V     |
| <b>C<sub>T</sub></b>  | Diode Capacitance         | <b>V<sub>R</sub></b> =40V, f = 100MHz   | -      | -   | 0.9  | pF    |
| <b>R<sub>fs</sub></b> | Forward Series Resistance | <b>I<sub>F</sub></b> = 50mA, f = 100MHz | -      | 0.5 | 0.75 | Ω     |

## ■ MARKING INFORMATION

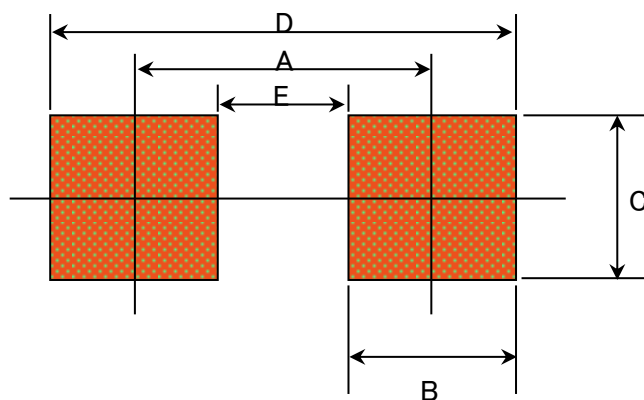


L1 : Parts number L5204F  
XXX : Lot code (3~4digits)

## ■ PACKAGE OUTLINE INFORMATION

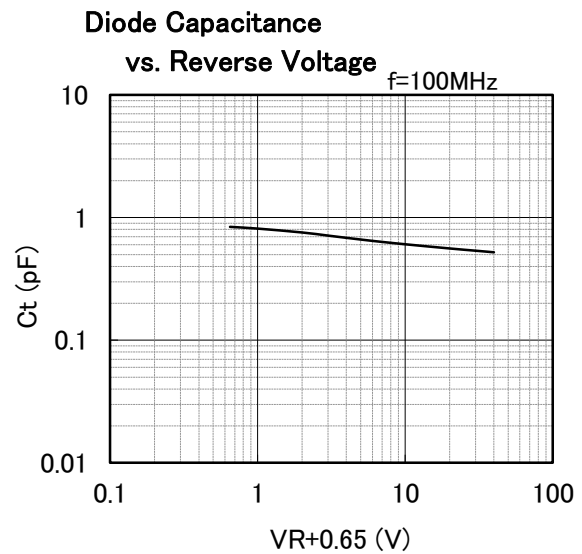
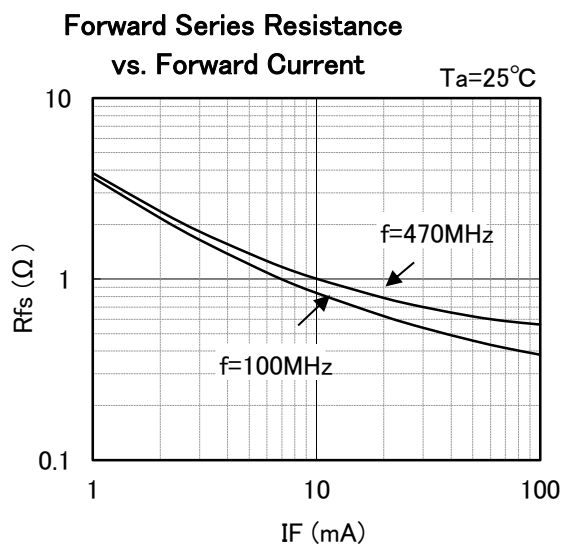
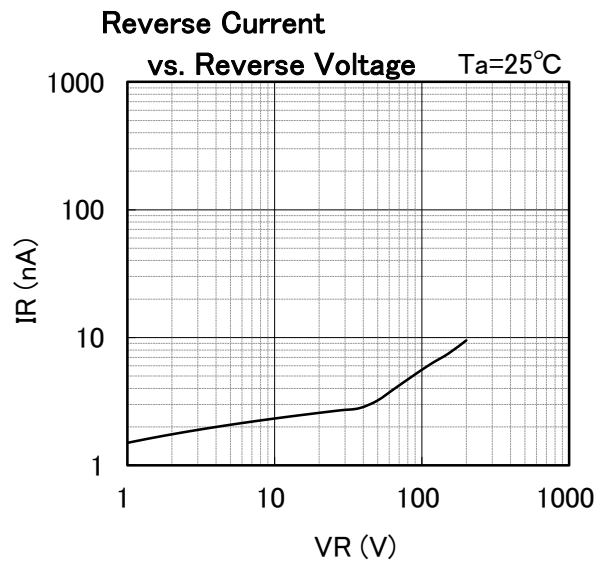
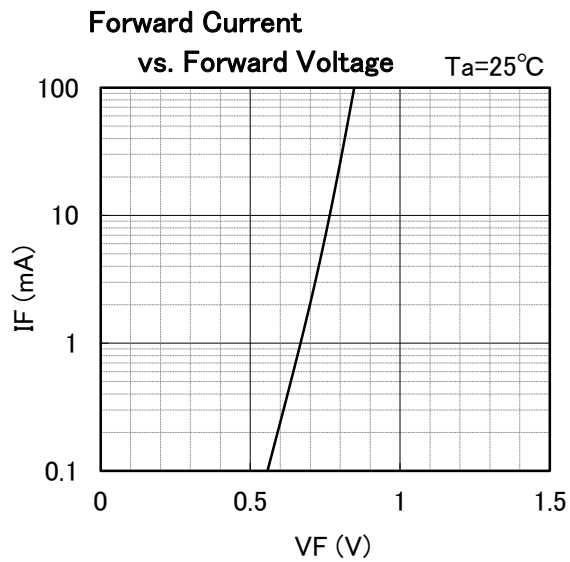


## ■ SUGGESTED PAD LAYOUT



| Size | 2512(1005) |
|------|------------|
| A    | 2.1        |
| B    | 1.2        |
| C    | 1.2        |
| D    | 3.3        |
| E    | 0.9        |
| unit | mm         |

## ■ TYPICAL PERFORMANCE CHARACTERISTICS





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## CONTACT

CEL  
4590 Patrick Henry Drive, Santa Clara, Ca 95054  
TEL: (408) 919-2500  
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