

# RKZ18TKG

Datasheet

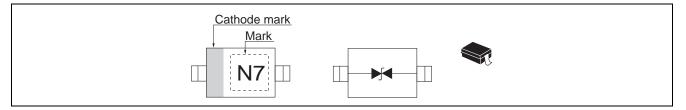
## Features

- This product is for a Bi-directional zener diode so its possible to use for Bi-directional surge absorption.
- High ESD resistance (guarantee of 30 kV, compliant with the IEC 61000-4-2 standard)
- Suitable for protecting CAN bus lines.
- Support for specifications of automobiles.
- Ultra small Resin Package (URP) is suitable for compact and high-density surface mount design.

## **Ordering Information**

| Part No    | Laser Mark | Package Name | Package Code | Taping Abbreviation<br>(Quantity) |  |
|------------|------------|--------------|--------------|-----------------------------------|--|
| RKZ18TKG P | N7         | URP          | PTSP0002ZA-A | P (3,000pcs / reel)               |  |

### Pin Arrangement





# **Absolute Maximum Ratings**

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

| Item                 | Symbol | Value       | Unit |
|----------------------|--------|-------------|------|
| Power dissipation    | Pd     | 200         | mW   |
| Junction temperature | Tj     | 150         | °C   |
| Storage temperature  | Tstg   | –55 to +150 | ۵°   |

# **Electrical Characteristics**

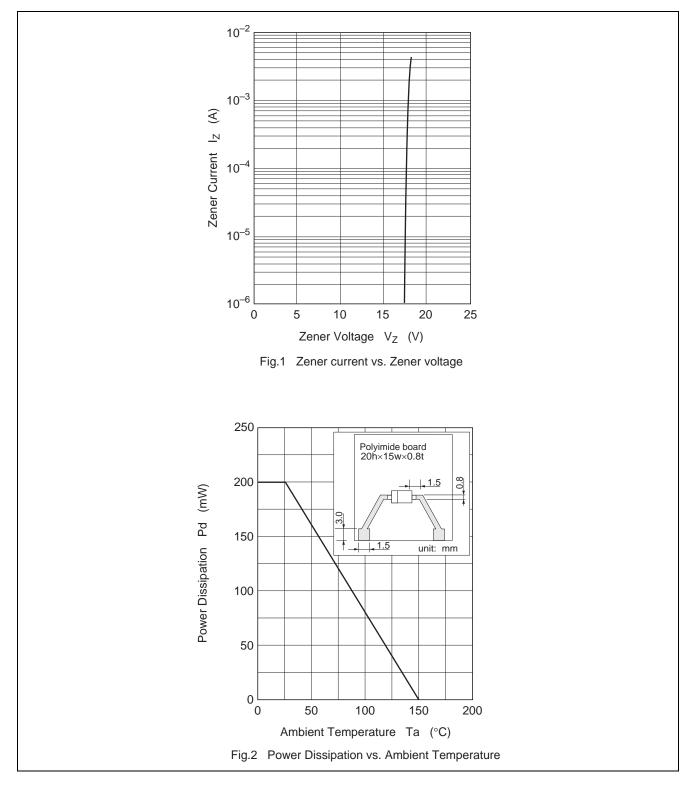
(Ta = 25°C)

| Item              | Symbol         | Min  | Тур | Max  | Unit | Test Condition  |
|-------------------|----------------|------|-----|------|------|---|
| Zener voltage     | Vz             | 16.2 | —   | 19.5 | V    | $I_Z = 1 \text{ mA}, 40 \text{ ms pulse}$                                     |
| Reverse current   | I <sub>R</sub> | —    | —   | 0.1  | μA   | V <sub>R</sub> = 13 V   |
| Capacitance       | С              | —    | _   | 30   | pF   | $V_R = 0 V, f = 1 MHz$  |
| ESD-Capability *1 | _              | 30   | _   | _    | kV   | C = 150 pF, R = 330 $\Omega$ , Both forward<br>and reverse direction 10 pulse |

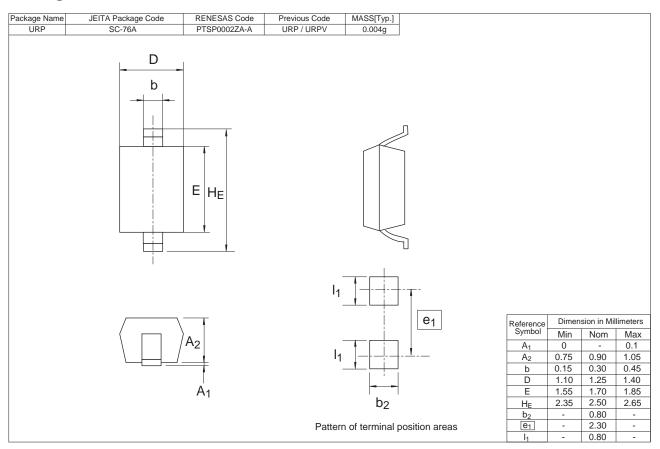
Note: 1. Failure criterion ;  $I_R > 0.1 \ \mu A$  at  $V_R$  = 13 V. (Both direction)



# **Main Characteristics**



## **Package Dimensions**





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