

RKZ27TKG

Silicon Epitaxial Planar Zener Diode for Bidirectional Surge Absorption

REJ03G1665-0200

Rev.2.00

Jan 13, 2009

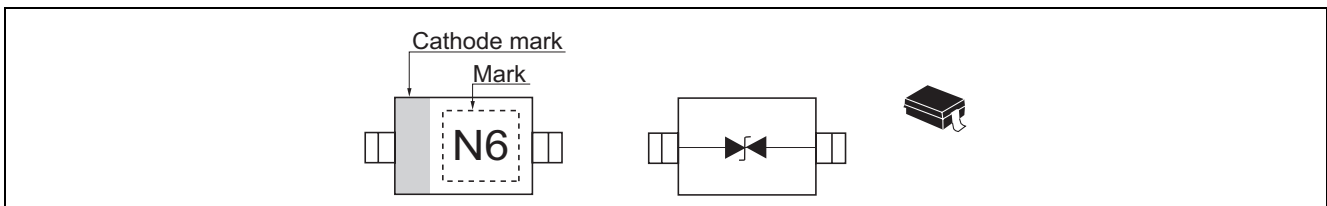
Features

- 1 package with Bidirectional characteristic suppresses surges in both forward and reverse directions (positive and negative surges).
- High ESD resistance (guarantee of 30 kV , compliant with the IEC 61000-4-2 standard)
- Suitable for protecting CAN/LIN-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 (Quantity)
RKZ27TKGP	N6	URP	PTSP0002ZA-A	P (3,000 pcs / reel)

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

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

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _Z	26.2	—	31.5	V	I _Z = 1 mA, 40 ms pulse
Reverse current	I _R	—	—	0.1	μA	V _R = 24 V
Capacitance	C	—	—	30	pF	V _R = 0 V, f = 1 MHz
ESD-Capability *1	—	30	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Note: Failure criterion ; I_R > 0.1 μA at V_R = 24 V. (Both direction)

Main Characteristics

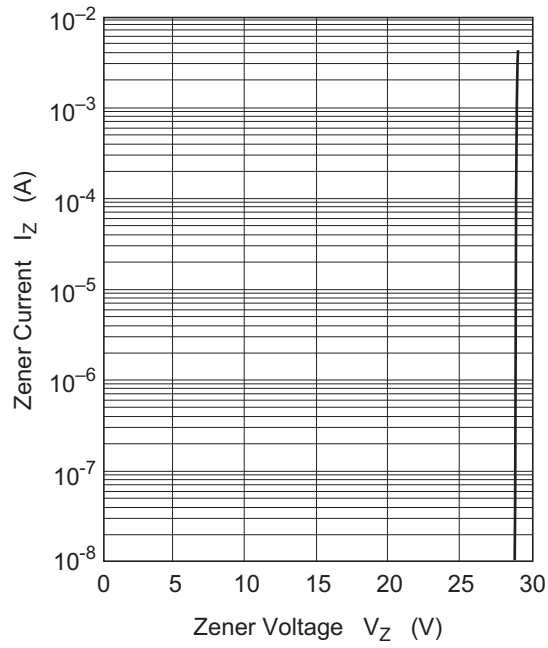


Fig.1 Zener current vs. Zener voltage

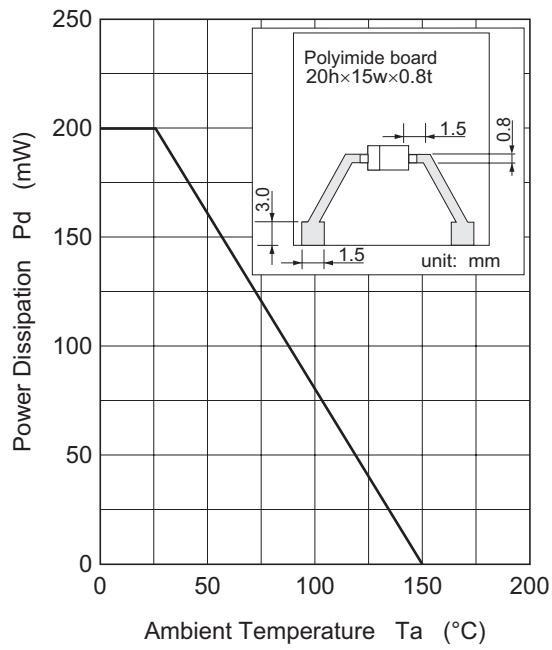
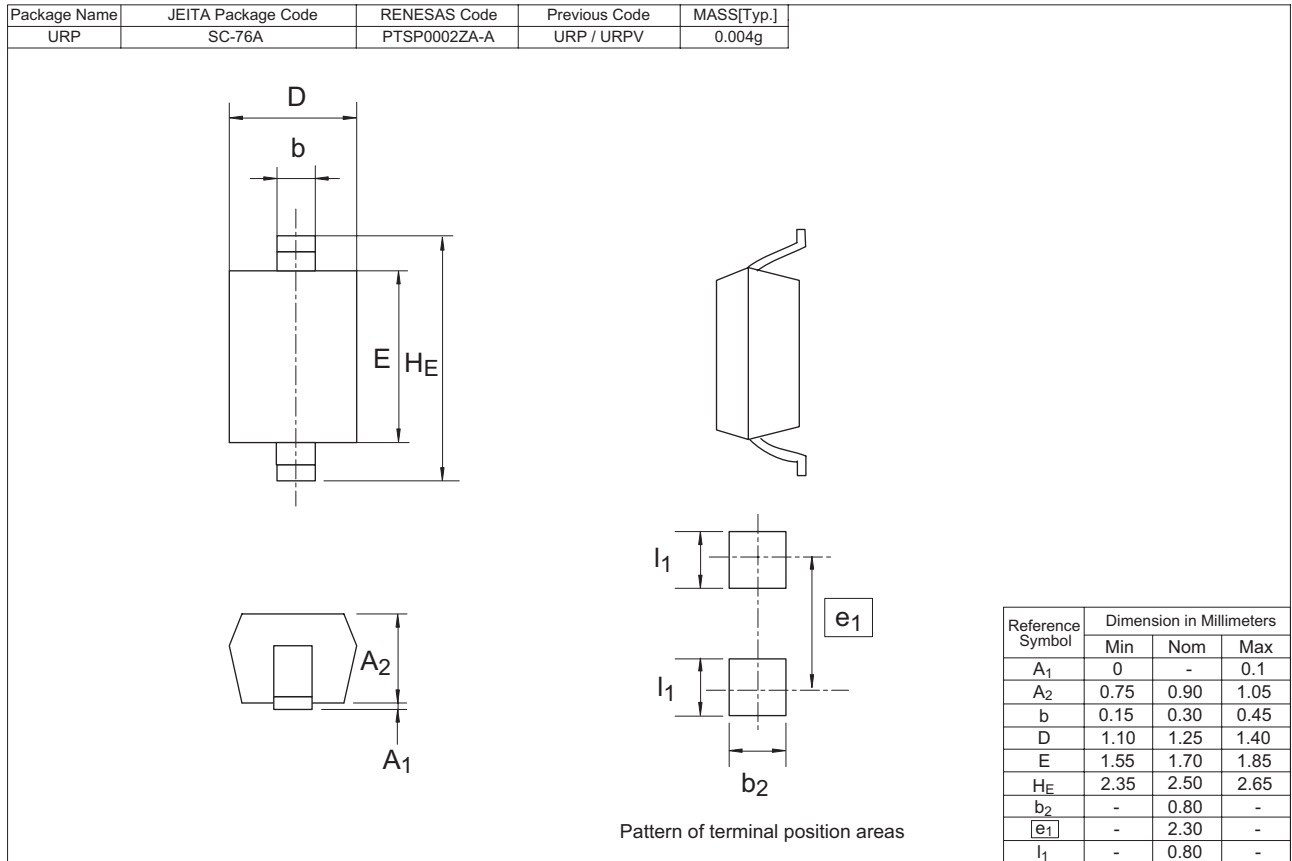


Fig.2 Power Dissipation vs. Ambient Temperature

Package Dimensions



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