

RKZ27TWAQE

Silicon Epitaxial Planar Zener Diode
for Bidirectional Surge Absorption

REJ03G1666-0200
Rev.2.00
Oct 14, 2008

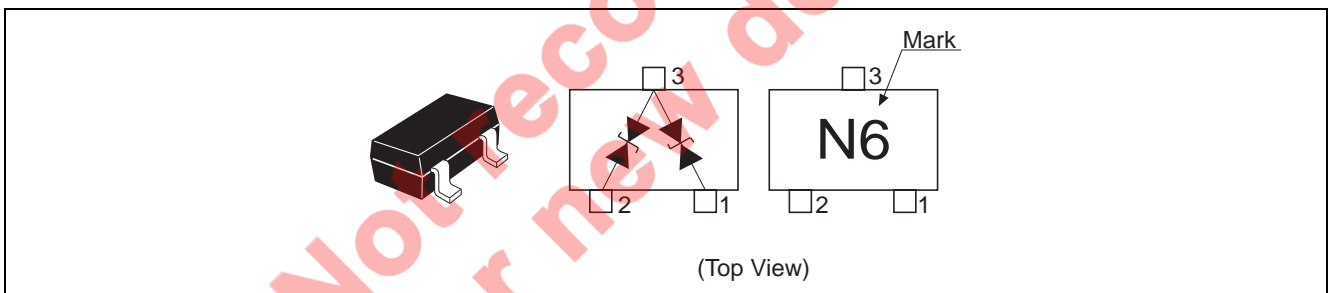
Features

- 2 lines with bidirectional characteristic in 1 package 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-BUS lines.
- Support for specifications of automobiles.
- CMPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKZ27TWAQE	N6	CMPAK	PTSP0003ZB-A

Pin Arrangement



Absolute Maximum Ratings *¹

(Ta = 25°C)

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

Note: 1 package total, See Fig.2.

Electrical Characteristics *¹

(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 * ²	—	30	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes: 1. Per one device

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

Not recommended
for new design

Main Characteristic

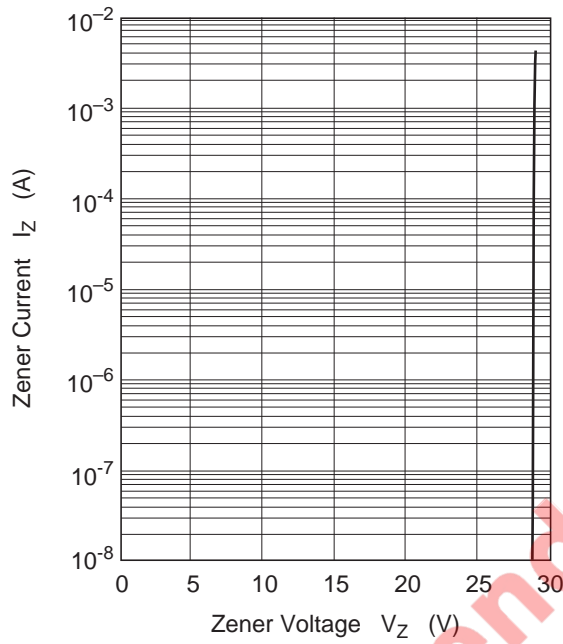


Fig.1 Zener current vs. Zener voltage

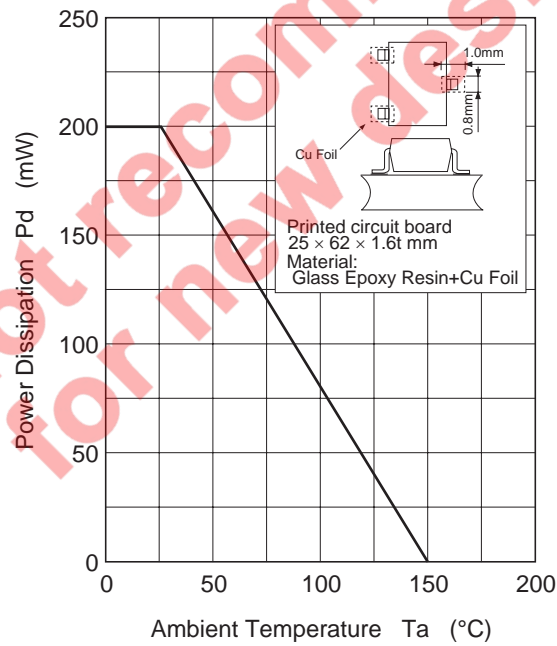
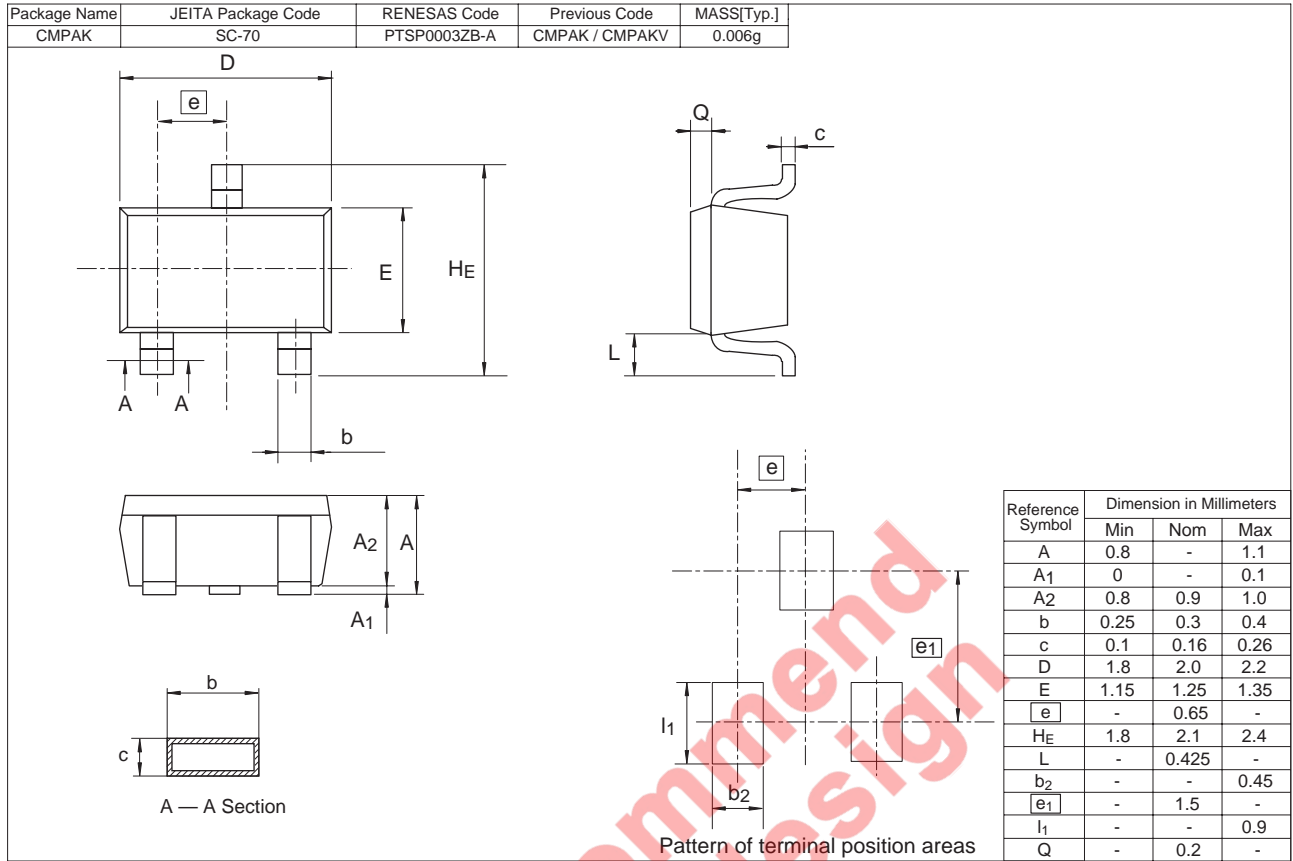


Fig.2 Power Dissipation vs. Ambient Temperature

Package Dimensions



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Notes:

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