

RKZ18TWAQE

Silicon Planar Zener Diode for Bi-directional
Surge Absorption

R07DS0171EJ0100
Rev.1.00
Sep 21, 2010

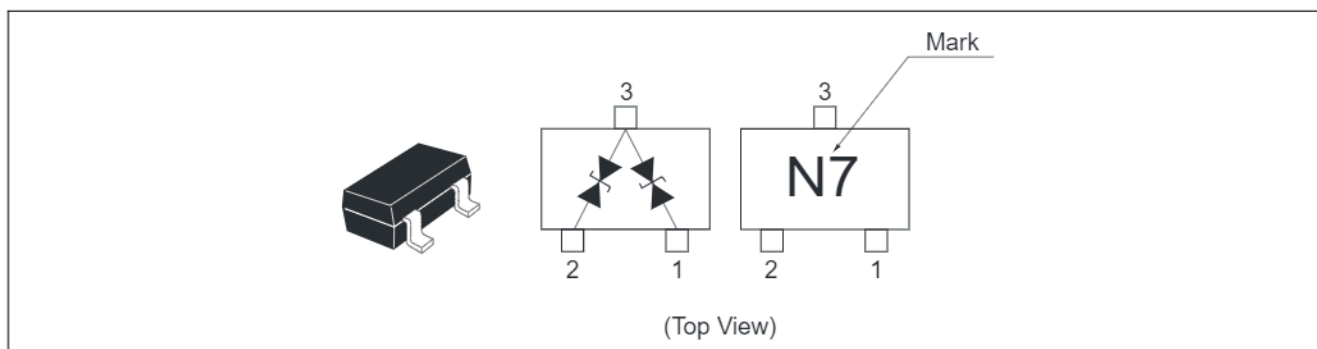
Features

- 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.
- CMPAK Package is suitable for high density surface mounting and high speed assembly

Ordering Information

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
RKZ18TWAQE H	N7	CMPAK	PTSP0003ZB-A	H (3,000pcs / reel)
RKZ18TWAQE P	N7	CMPAK	PTSP0003ZB-A	P (3,000pcs / 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

Note: Sum for total number of packages. See Fig.2.

Electrical Characteristics *1

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V _Z	16.2	—	19.5	V	I _Z = 1 mA, 40 ms pulse
Reverse current	I _R	—	—	0.1	μA	V _R = 13 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 = 13 V. (Both direction)

Main Characteristics

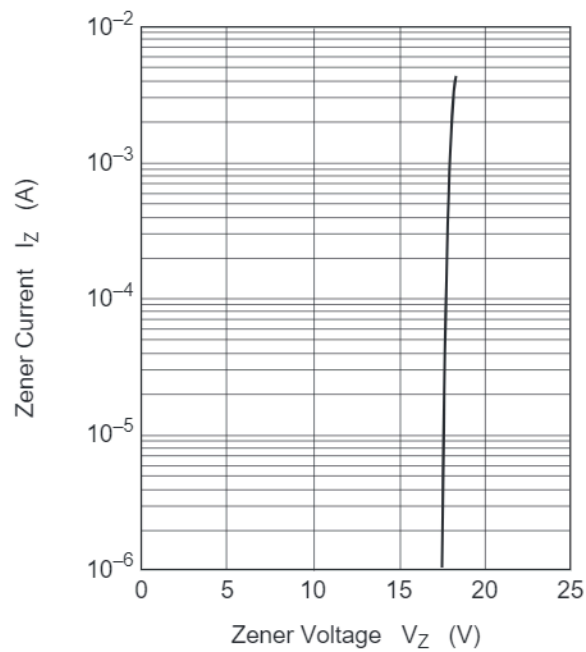


Fig.1 Zener current vs. Zener voltage

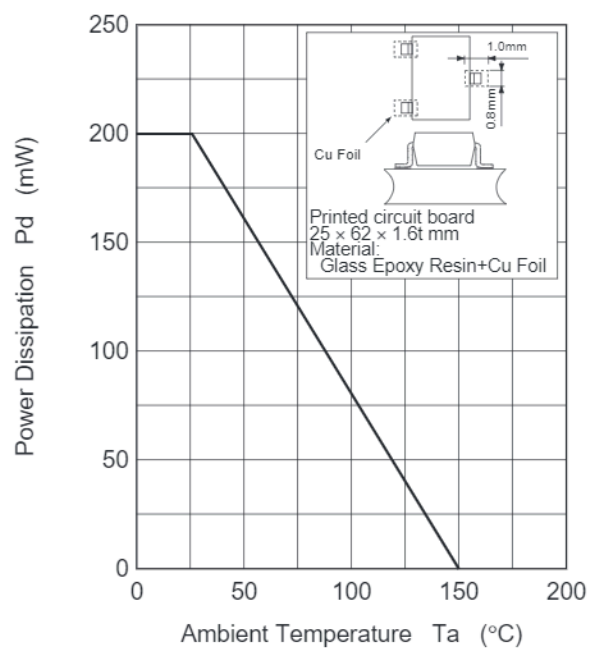
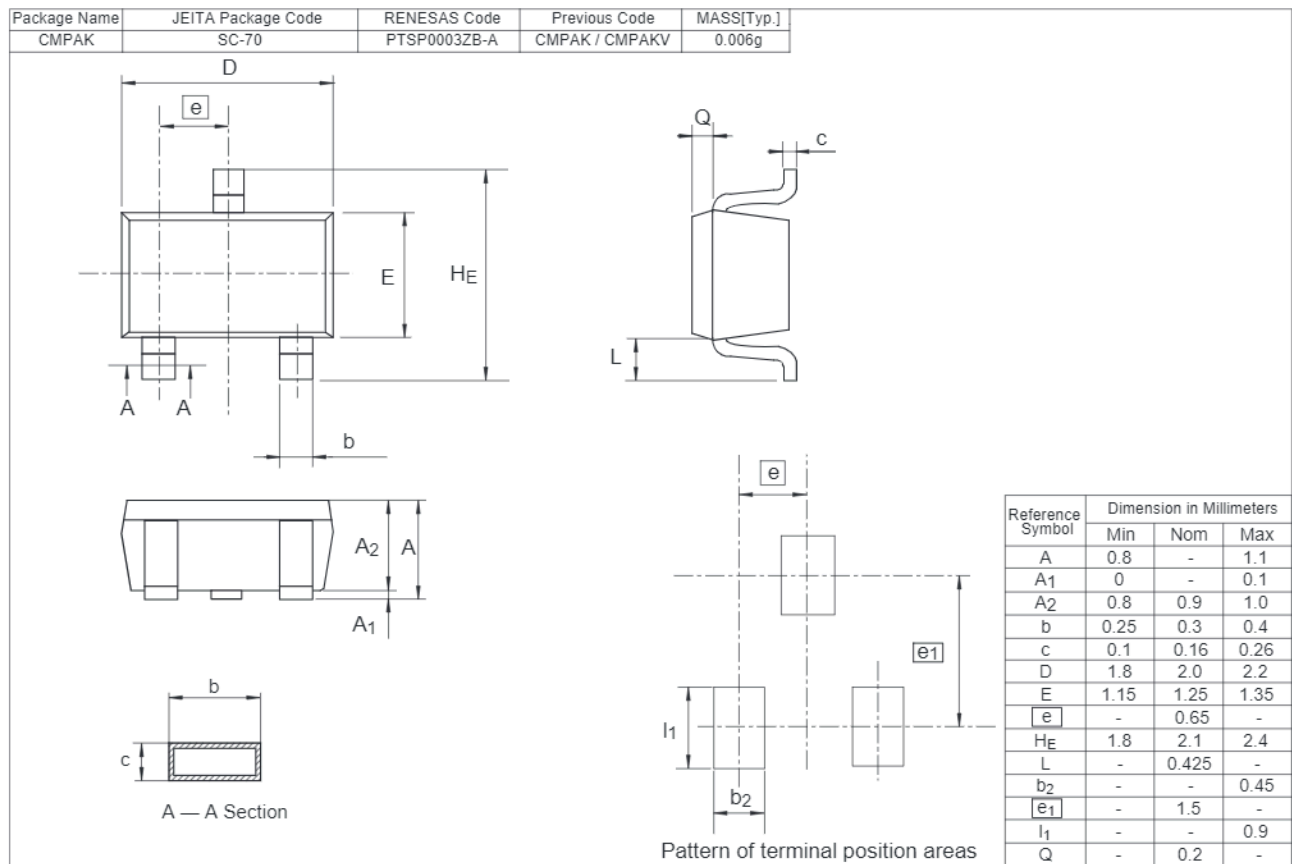


Fig.2 Power Dissipation vs. Ambient Temperature

Package Dimensions



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