

# RKZ6.8TKJ

## Silicon Planar Zener Diode for Bidirectional Surge Absorption

REJ03G1300-0200

Rev.2.00

May 12, 2006

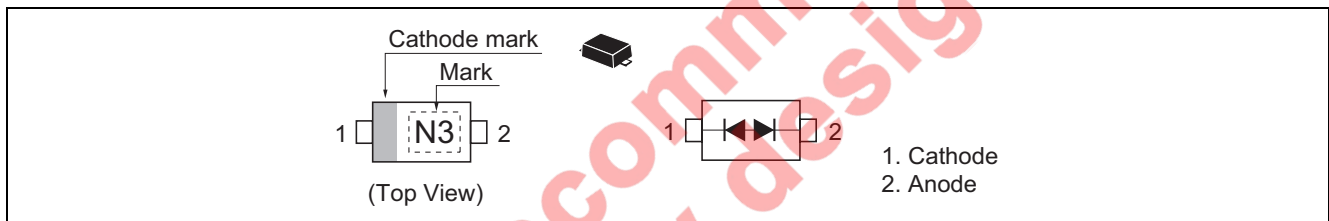
### Features

- This product is for a two-way zener diode so its possible to use for bidirectional surge absorption.
- Surge absorption for electronic devices such as LED-equipped devices.
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Package Name	Package Code
RKZ6.8TKJ	N3	UFP	PWSF0002ZA-A

### Pin Arrangement



**Absolute Maximum Ratings** \*<sup>1</sup>

(Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd * <sup>2</sup>	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. Per one device

2. See Fig.2.

**Electrical Characteristics**

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V <sub>Z</sub>	5.80	—	7.80	V	I <sub>Z</sub> = 5 mA, 40 ms pulse
Reverse current	I <sub>R</sub>	—	—	0.5	μA	V <sub>R</sub> = 3.5 V
ESD-Capability * <sup>1</sup>	—	25	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes: 1. Failure criterion ; I<sub>R</sub> > 0.5 μA at V<sub>R</sub> = 3.5 V.( Both direction)

2. For UFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Not recommended  
for new design

## Main Characteristic

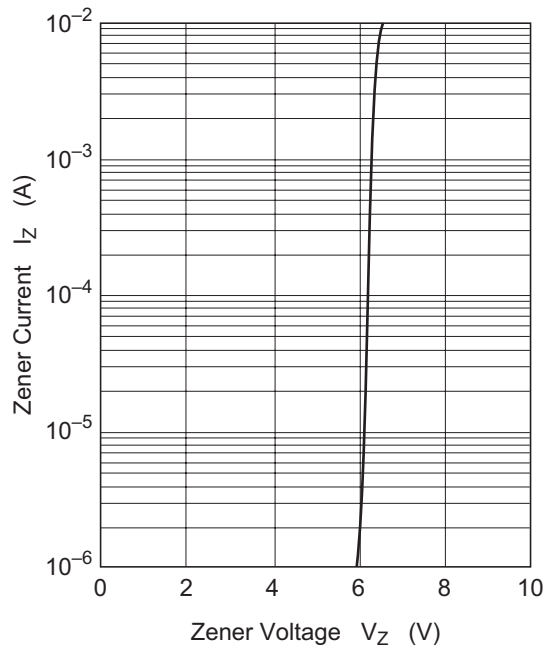


Fig.1 Zener current vs. Zener voltage

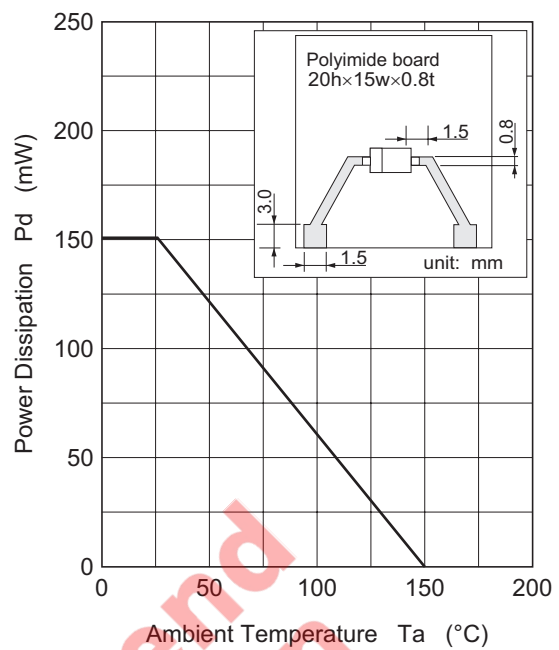


Fig.2 Power Dissipation vs. Ambient Temperature

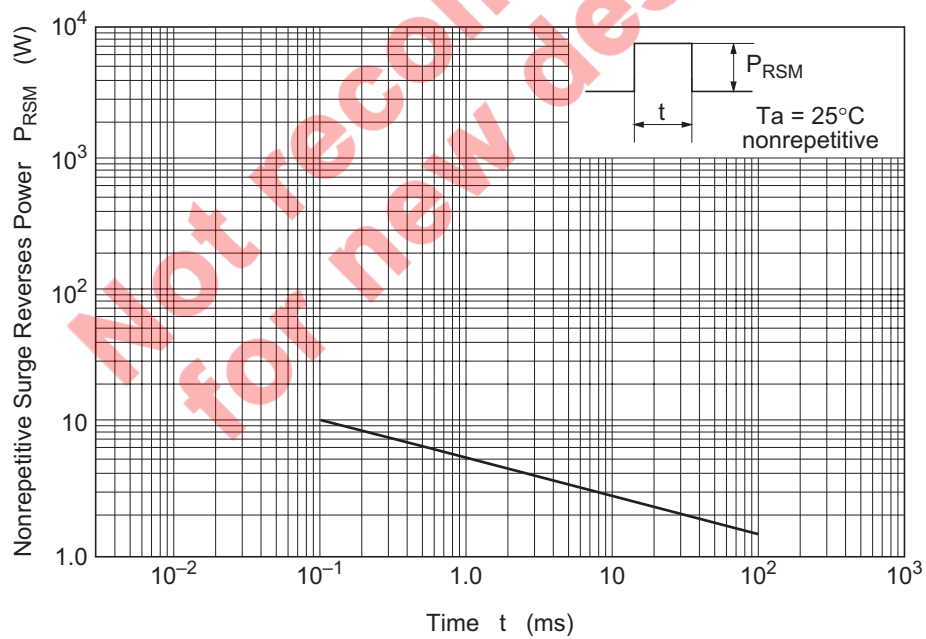
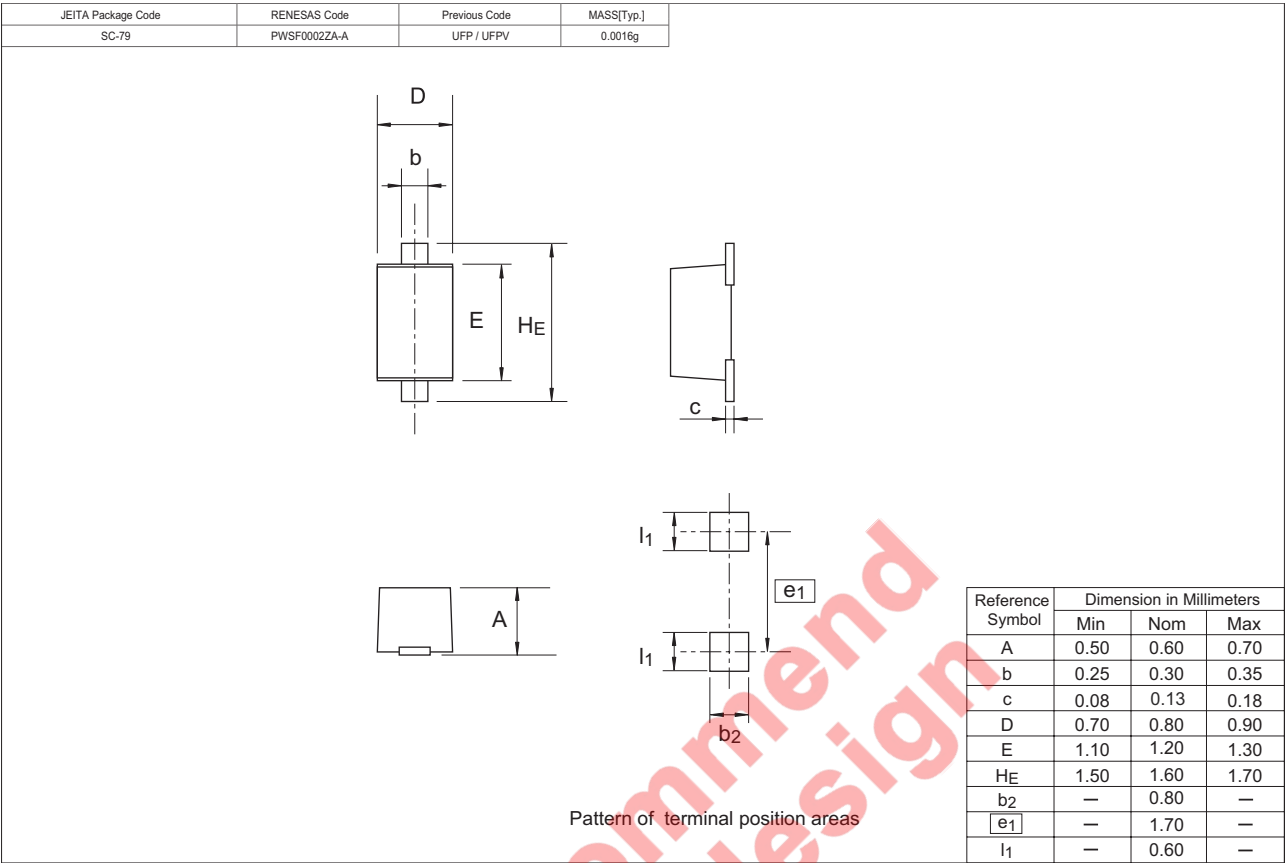


Fig.3 Surge Reverse Power Ratings

Package Dimensions



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