

# RKZ6.8Z4MFAKT

## Silicon Planar Zener Diode for Surge Absorption

REJ03G1351-0100  
Rev.1.00  
Feb 22, 2006

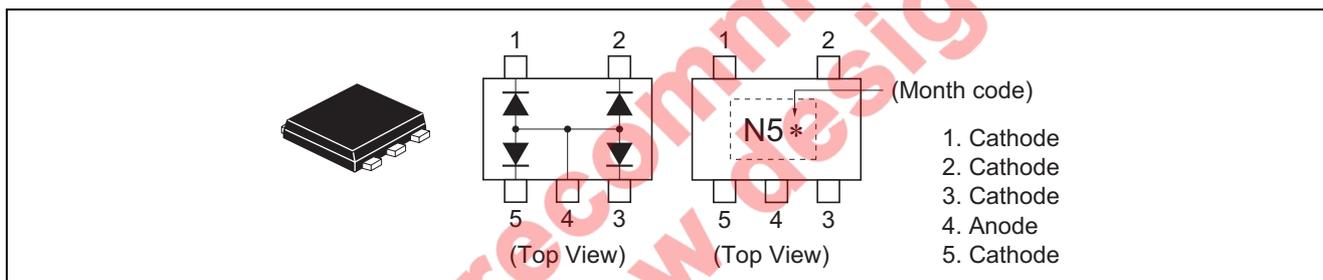
### Features

- RKZ6.8Z4MFAKT has four devices in a monolithic, and can absorb surge.
- Low capacitance ( $C = 4.0 \text{ pF Typ}$ ) and can protect ESD of signal line.
- VSON-5 Package is suitable for high density surface mounting.

### Ordering Information

Type No.	Laser Mark	Package Name	Package Code
RKZ6.8Z4MFAKT	N5	VSON-5	PUSN0005ZB-A

### Pin Arrangement



### Month Code

Month of Manufacture	Assemble	
	JAPAN	MALAYSIA
January	A	1
February	B	2
March	C	3
April	D	4
May	E	5
June	F	6

Month of Manufacture	Assemble	
	JAPAN	MALAYSIA
July	G	7
August	H	8
September	J	9
October	K	W
November	L	X
December	M	Y

## Absolute Maximum Ratings

(Ta = 25°C)

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

Note: Four device total, See Fig.2.

## Electrical Characteristics \*1

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V <sub>Z</sub>	6.47	—	7.00	V	I <sub>Z</sub> = 5 mA, 40 ms pulse
Reverse current	I <sub>R</sub>	—	—	2	μA	V <sub>R</sub> = 3.5 V
Capacitance	C	—	4.0	4.5	pF	V <sub>R</sub> = 0 V, f = 1 MHz
Dynamic resistance	r <sub>d</sub>	—	—	30	Ω	I <sub>Z</sub> = 5 mA
ESD-Capability *2, *3	—	8	—	—	kV	C = 150 pF, R = 330 Ω, Both forward and reverse direction 10 pulse

Notes: 1. Per one device.

2. Failure criterion ; I<sub>R</sub> > 2 μA at V<sub>R</sub> = 3.5 V.

3. Between cathode and anode.

Not recommended for new design

Main Characteristic

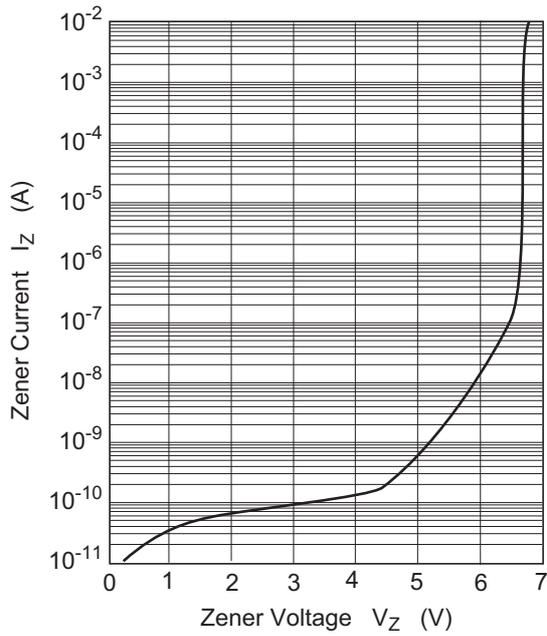


Fig.1 Zener current vs. Zener voltage

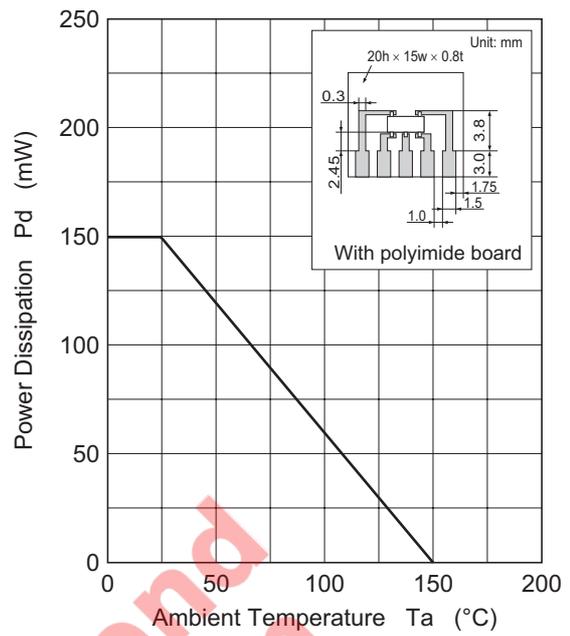


Fig.2 Power Dissipation vs. Ambient Temperature

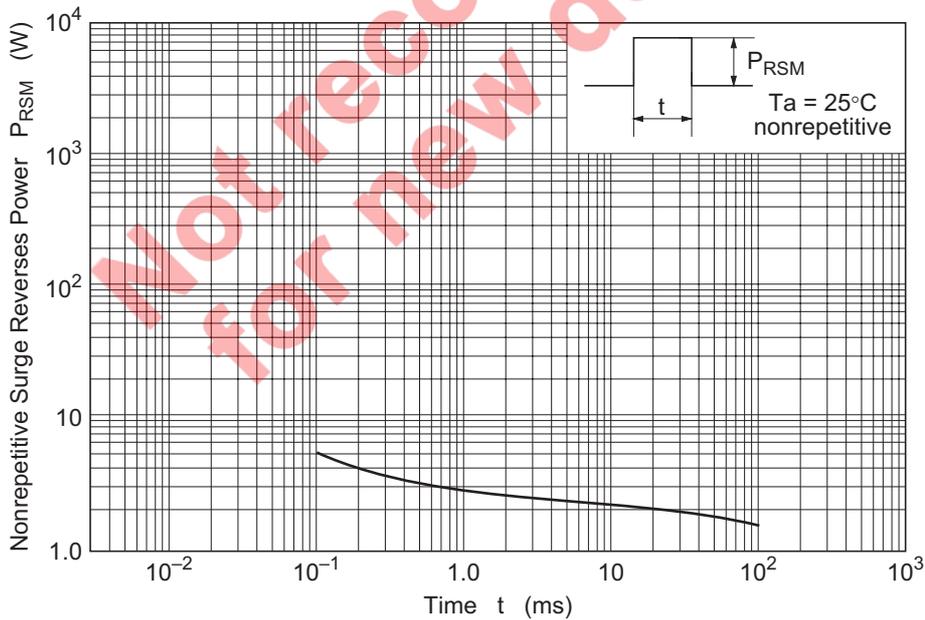
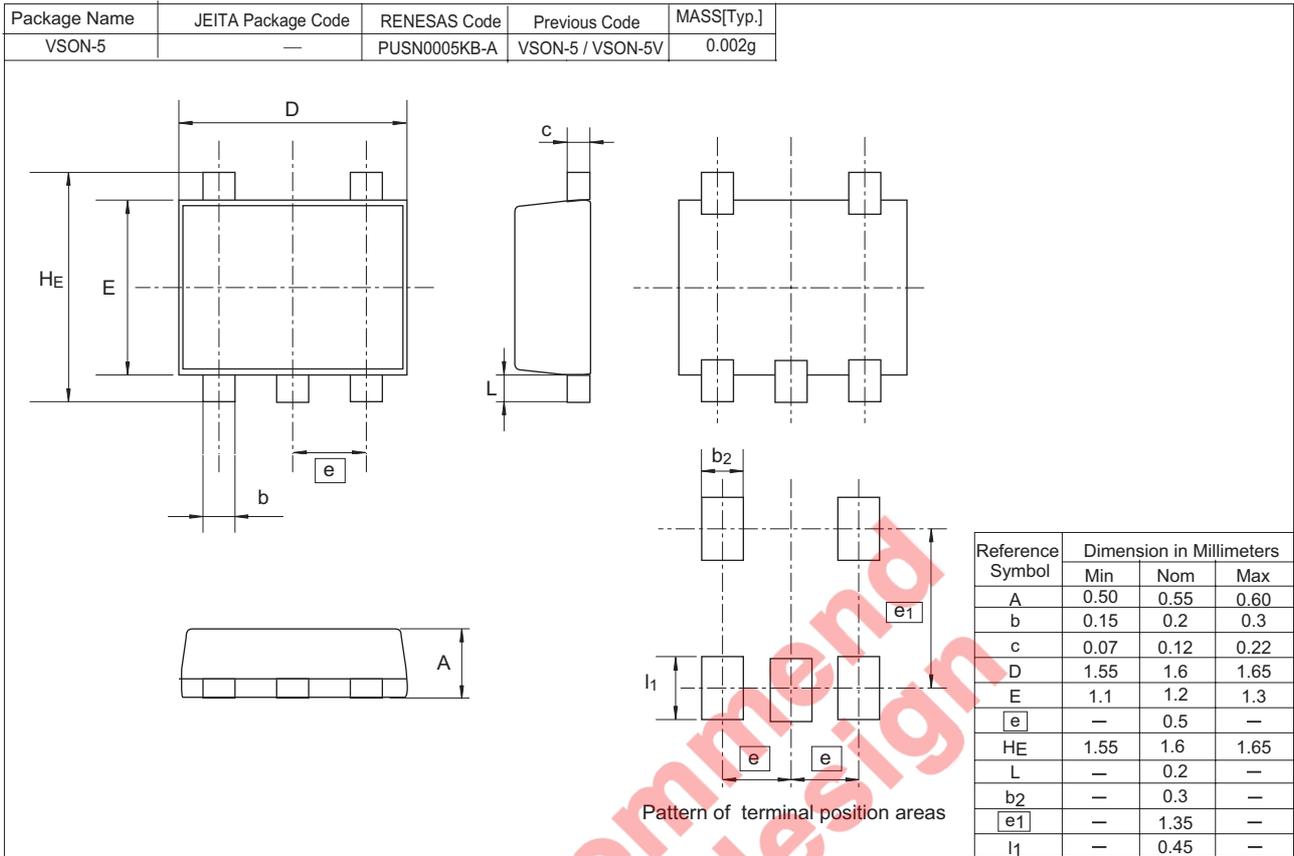


Fig.3 Surge Reverse Power Ratings

Package Dimensions



Not recommended for new design

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