

# RKZ6.8ZMFAKT

## Silicon Planar Zener Diode for Surge Absorption

REJ03G1350-0100  
Rev.1.00  
Feb 22, 2006

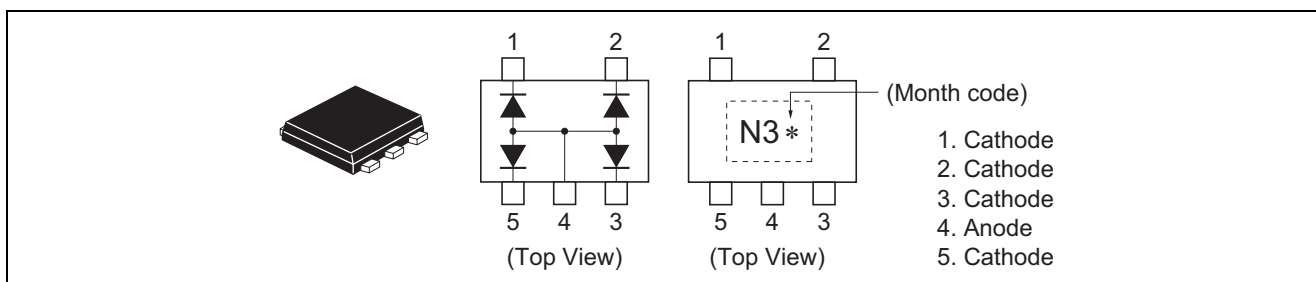
### Features

- RKZ6.8ZMFAKT has four devices in a monolithic, and can absorb surge.
- VSON-5 Package is suitable for high density surface mounting.

### Ordering Information

Type No.	Laser Mark	Package Name	Package Code
RKZ6.8ZMFAKT	N3	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>	—	—	0.5	μA	V <sub>R</sub> = 3.5 V
Capacitance	C	—	—	25	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	—	25	—	—	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> > 0.5 μA at V<sub>R</sub> = 3.5 V.  
 3. Between cathode and anode.

Main Characteristic

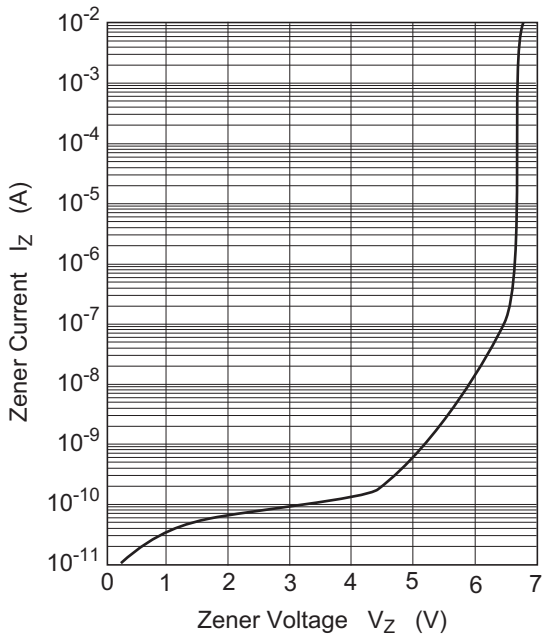


Fig.1 Zener current vs. Zener voltage

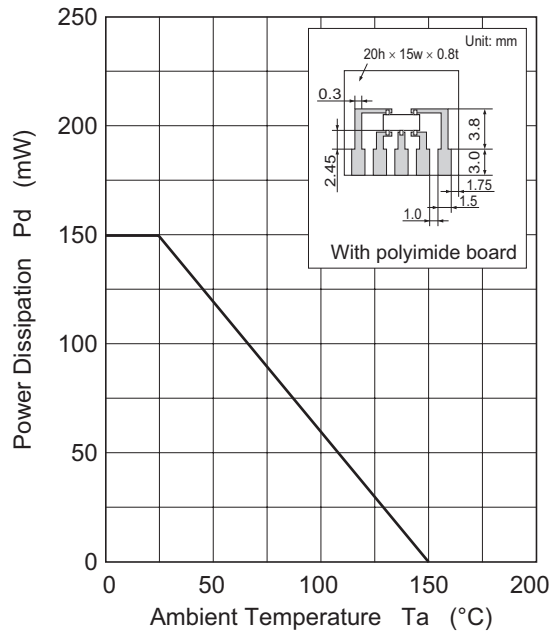


Fig.2 Power Dissipation vs. Ambient Temperature

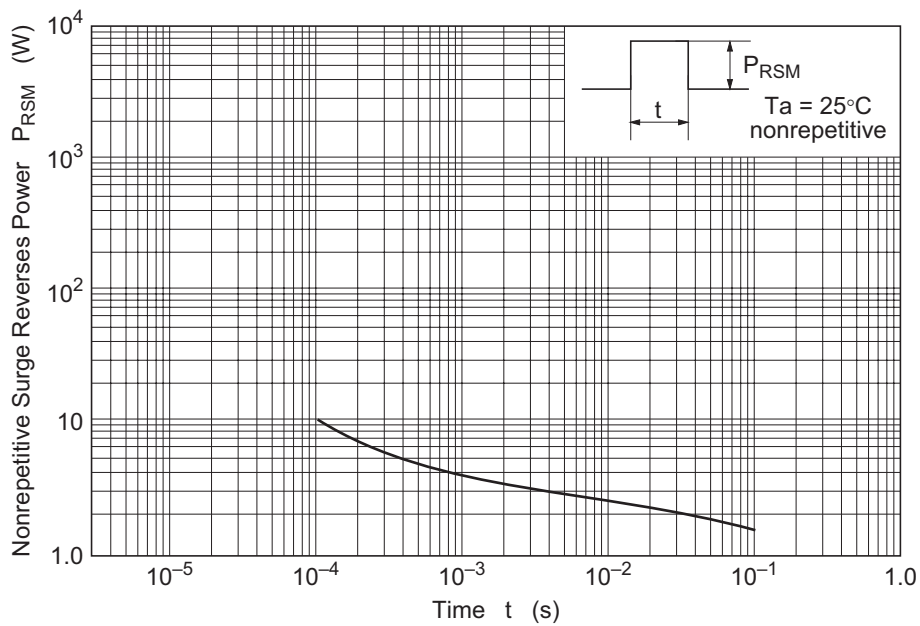


Fig.3 Surge Reverse Power Ratings

Main Characteristic (cont.)

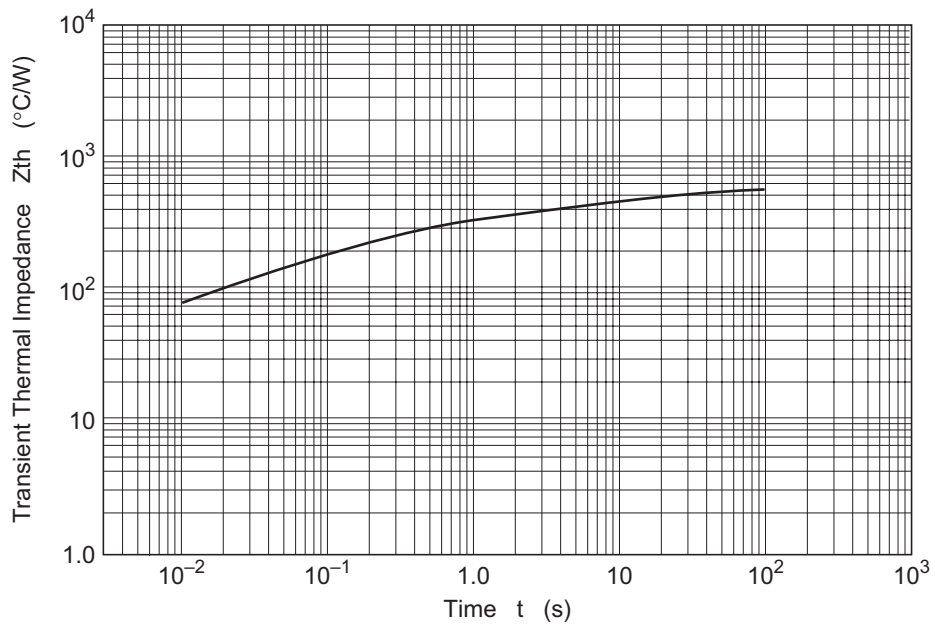
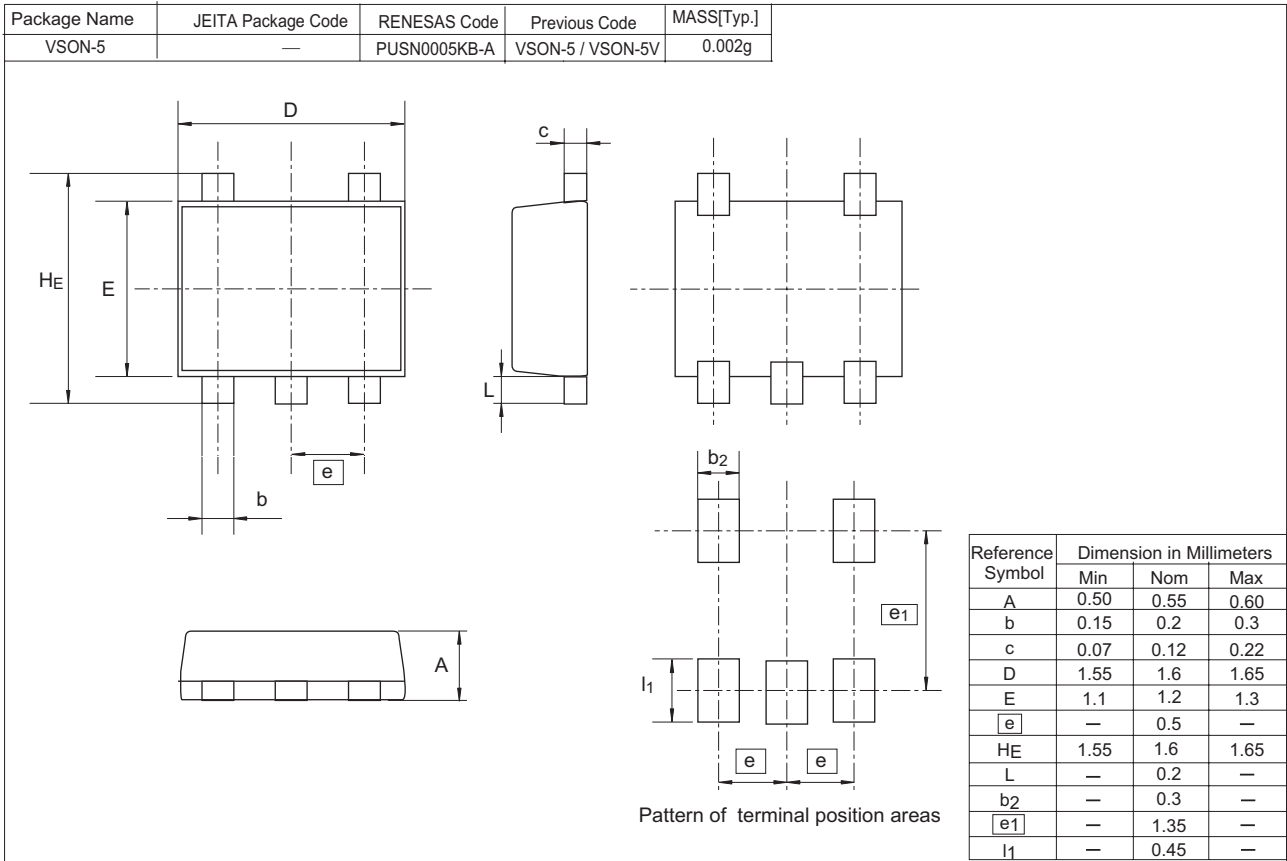


Fig.4 Transient Thermal Impedance

### Package Dimensions



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