# Zener diode

# **UMZ27N**

# Applications

Voltage regulation (common anode configuration)

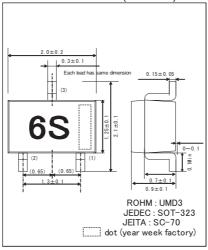
## Features

- 1) Small mold type. (UMD3)
- 2) High reliability

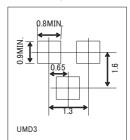
## Construction

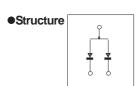
Silicon epitaxial planer

# ●External dimensions (Unit : mm)

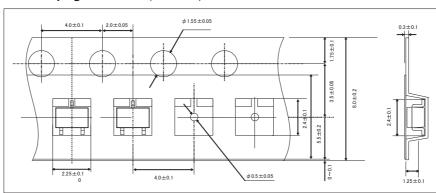


# ●Land size figure





# ● Taping dimensions (Unit: mm)



# ● Absolute maximum ratings (Ta=25°C)

3-(						
Parameter	Symbol	Limits	Unit			
Power dissipation (*1)	Р	200	mW			
Junction temperature	Tj	150	°C			
Storage temperature	Tstg	-55 to +150	°C			

<sup>(\*1)</sup>Total of 2 elements

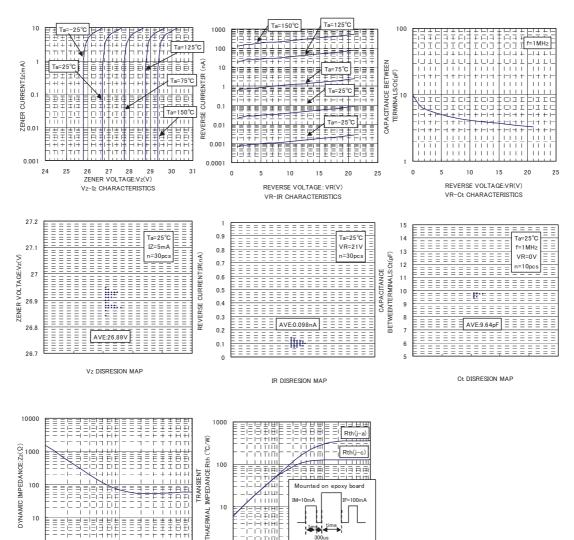
# ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Zener voltage	$V_Z$	26.19	-	27.53	V	I <sub>Z</sub> =5mA	
Reverse current	I <sub>R</sub>	-	-	0.10	μA	V <sub>R</sub> =21V	

0.1

ZENER CURRENT(mA)
Zz-Iz CHARACTERISTICS

#### •Electrical characteristic curves



0.001

0.1

TIME:t(s) Rth-t CHARACTERISTICS 1000

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(Note1) Medical Equipment Classification of the Specific Applications

JAPAN	USA	EU	CHINA	
CLASSⅢ	CLASSII	CLASSIIb	CL ACCTI	
CLASSIV		CLASSⅢ	CLASSIII	

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  - [f] Sealing or coating our Products with resin or other coating materials
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- 4. The Products are not subject to radiation-proof design.
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- 7. De-rate Power Dissipation (Pd) depending on Ambient temperature (Ta). When used in sealed area, confirm the actual ambient temperature.
- 8. Confirm that operation temperature is within the specified range described in the product specification.
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- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

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#### **Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

## **Precaution for Storage / Transportation**

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  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
- 2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

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