

# ESD Protection diode

## RSB5.6S

●Applications  
ESD Protection

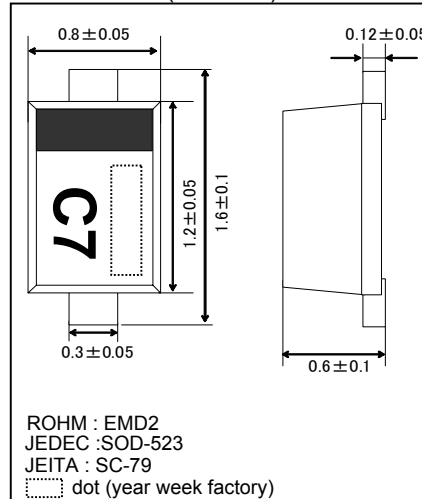
●Features

- 1) Ultra small mold type. (EMD2)
- 2) Bi direction high reliability.
- 3) Bi chip-mounter, automatic mounting is possible.

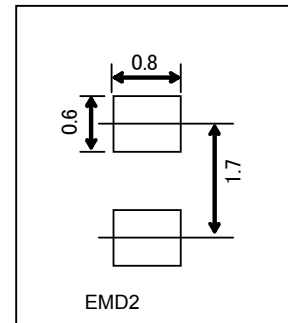
●Construction

Silicon epitaxial planar

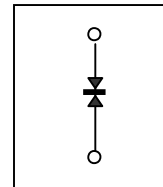
●Dimensions (Unit : mm)



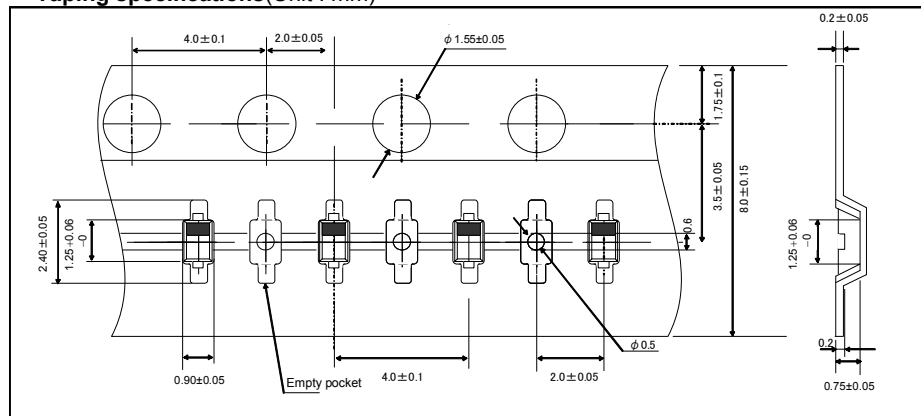
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak Pulse Power (tp=10×100μs)	Ppk	10	W
Power dissipation	P	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
Operating temperature range	Topr	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Max.	Unit	Conditions
Zener voltage	Vz	4.760	6.440	V	Iz=1mA
Reverse current	IR	-	1.0	μA	VR=2.5V

\* Zener voltage to be measured at 40ms after current starting to apply.

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## Bi-directional zener diodes

RSB5.6S

[Inquiries concerning our products](#)

[Data Sheet](#)

[Data Sheet](#) (1005K)

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### Technical Data

- [Spice Model\(lib\)](#)
- [Thermal Model\(lib\)](#)
- [Reliability information](#)
- [Condition of soldering](#)
- [Storage conditions](#)
- [Taping specifications](#)
- [Part No. explanation](#)
- [Operation notes](#)
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[ Product description ]

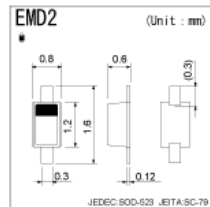
ROHM's zener diodes are available in various lineup as 2-pin mold surfacemount type and complex type.

### Outline



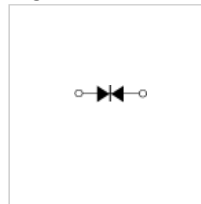
1.6x0.8(t=0.6)

### Dimensions



\* Click to enlarge.

### Equivalent circuit diagram



### Features

- This zener diode absorbs both plus and minus surge in one package, and are suitable for various signal lines from consumer appliances to automotives.
- Bi-directional zener diodes.

### Product specifications

Absolute maximum ratings (Ta=25°C)		
Rated parameters	Standard value	Conditions
Peak pulse power Ppk_1	-	
Peak pulse power Ppk_2	-	
Stand-off voltage V <sub>RMN</sub>	-	
Power dissipation P <sub>D</sub> (mW)	150	
Junction temperature T <sub>J</sub> (°C)	150	
Storage temperature T <sub>stg</sub> (°C)	-55 to +150	
Operating temperature Topr(°C)	-55 to +150	

\*The contents described here are just outline for introduction.  
Please obtain the specification sheets from us for thorough check before use.

### Status Product

Part No.	Package	Status *	RoHS	Packing style	Package quantity	Sales	Distribution Inventory
RSB5.6STE61	EMD2/SOD-523/SC-79 @ROHM/JEDEC/JEITA	Active	Yes	Taping	3000	<a href="#">Inquiry</a>	<a href="#">Purchase</a>

\* Active: Production or current type Preparation: Preliminary type Preview: Development type

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