

# Bi direction ESD Protection Diode

## RSB6.8ZS

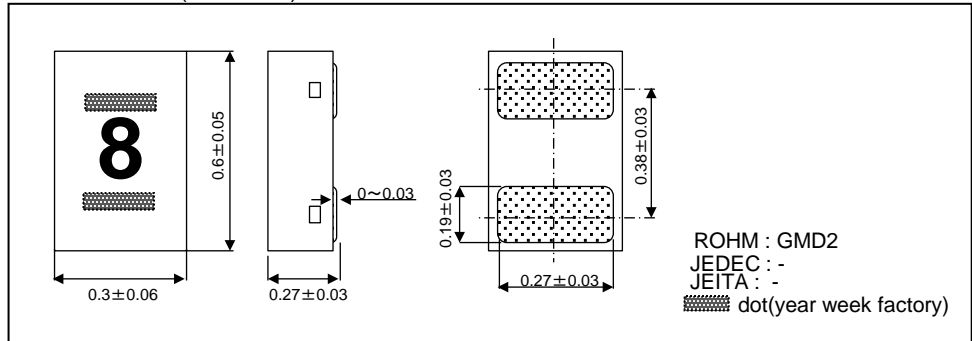
**●Applications**

ESD Protection

**●Features**

- 1) Ultra small mold type.(GMD2)
- 2) Bi-directionality.
- 3) High reliability.
- 4) By chip-mounter, automatic mounting is possible.

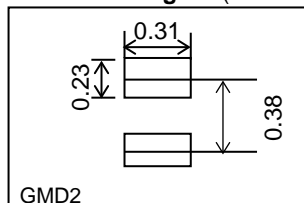
**●Dimensions (Unit : mm)**



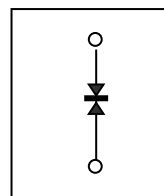
**●Constructions**

Silicon epitaxial planer

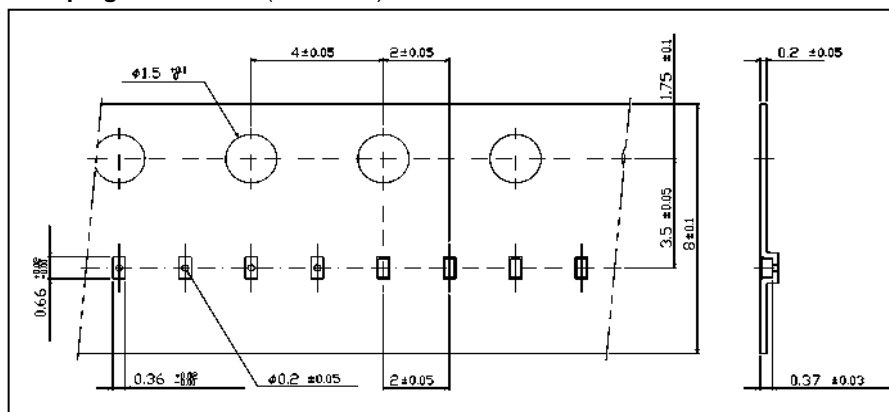
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping dimensions (Unit : mm)**

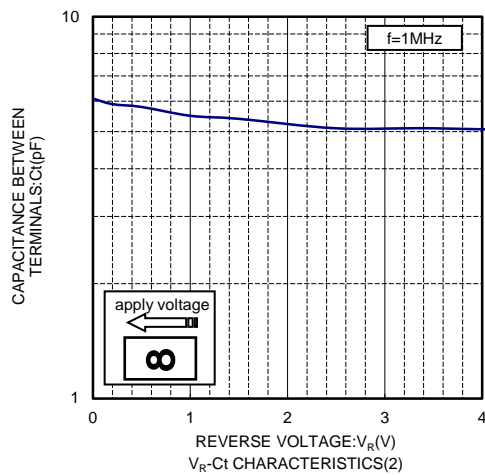
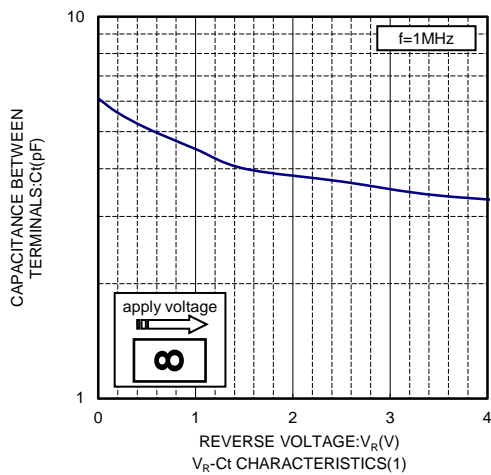
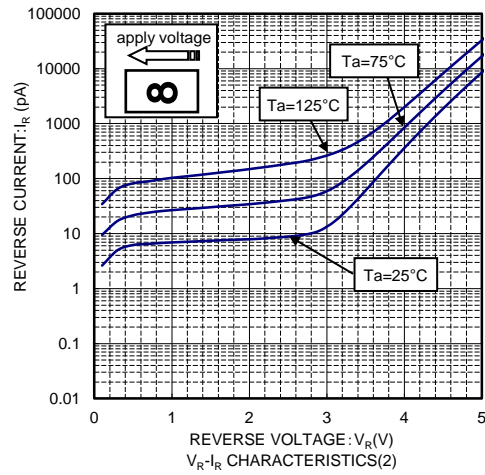
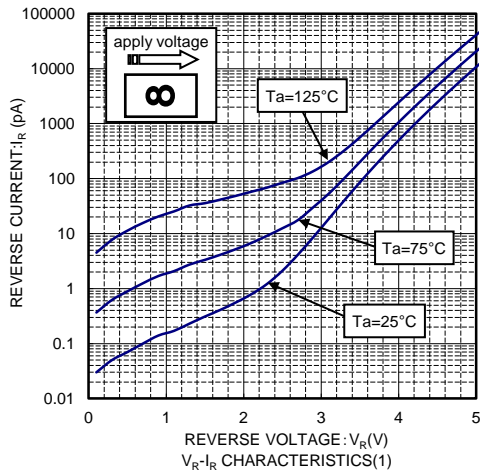
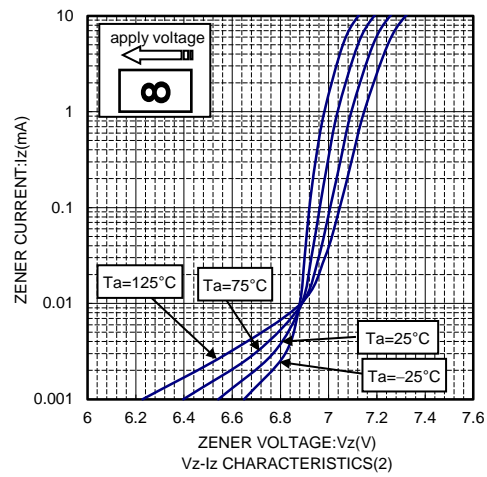
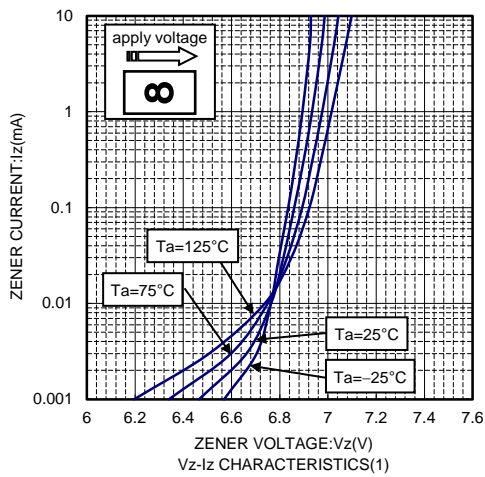


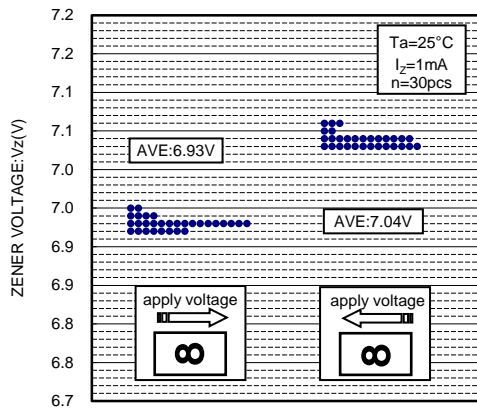
**●Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
Power dissipation	P	100	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C
Operation temperature range	Topor	-55 to +150	°C

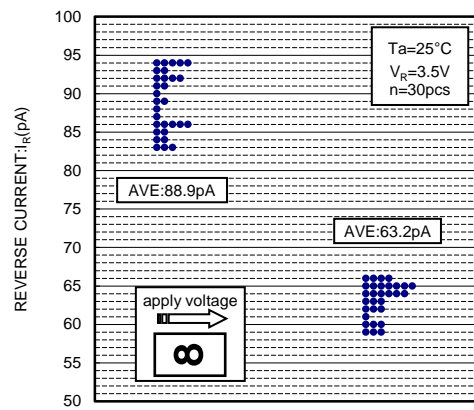
**●Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>z</sub>	5.78	-	7.82	V	I <sub>z</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	0.5	μA	V <sub>R</sub> =3.5V

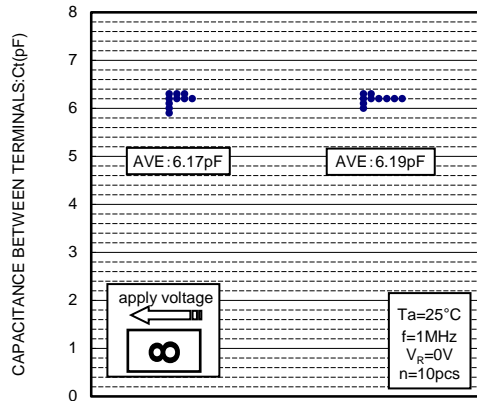




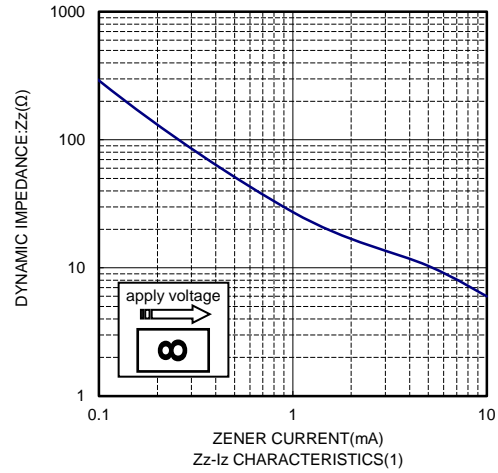
Z<sub>v</sub> DISPERSION MAP



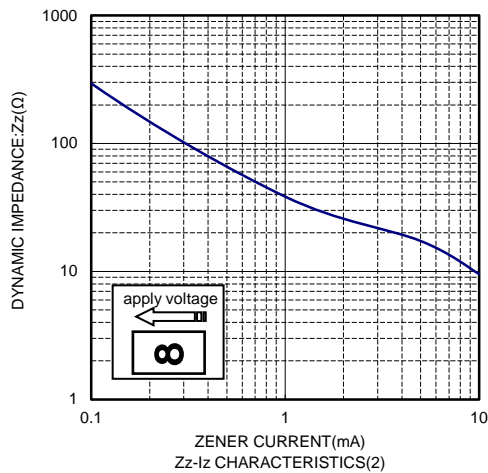
I<sub>r</sub> DISPERSION MAP



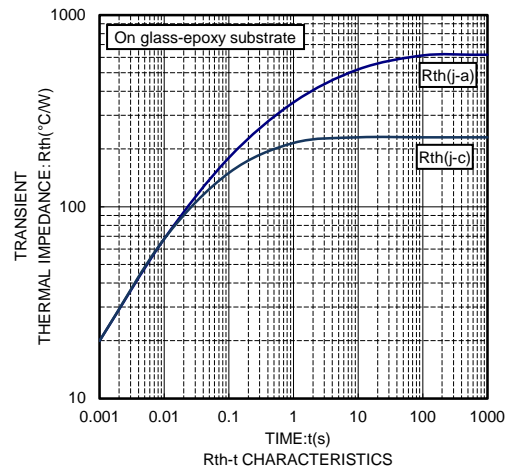
C<sub>t</sub> DISPERSION MAP



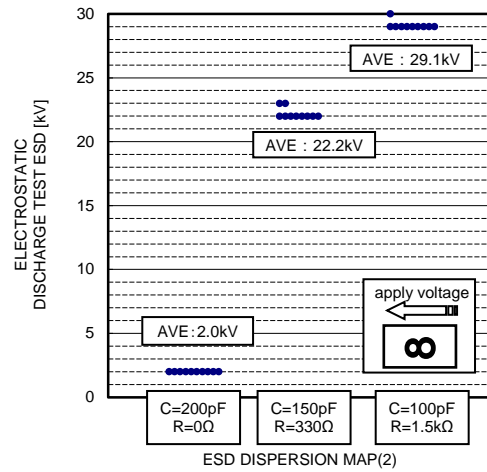
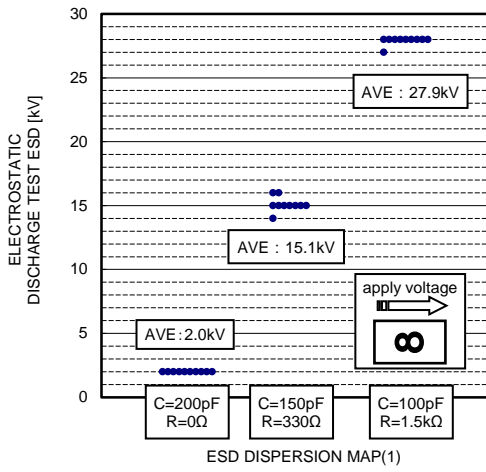
Z<sub>z</sub>-I<sub>z</sub> CHARACTERISTICS(1)



Z<sub>z</sub>-I<sub>z</sub> CHARACTERISTICS(2)



R<sub>th</sub>-t CHARACTERISTICS



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