

# Ultra Low Capacitance ESD Protection Diode

## RSAC6.8CS

● **Applications**

ESD Protection

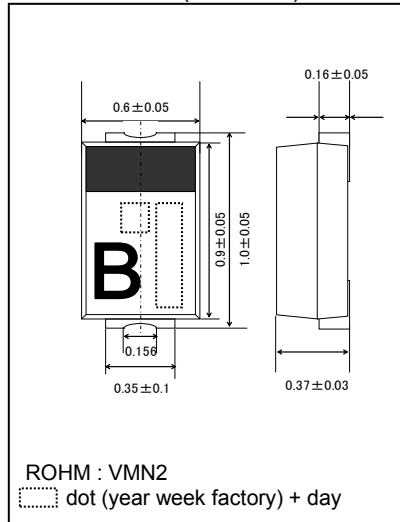
● **Features**

- 1) Ultra small mold type.(VMN2)
- 2) Low Capacitance.
- 3) High Reliability.
- 4) By chip-mounter, automatic mounting is possible.

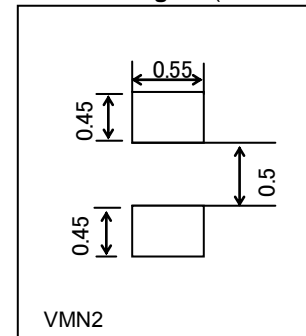
● **Construction**

Silicon epitaxial planar

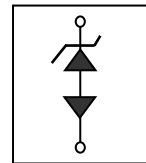
● **Dimensions (Unit : mm)**



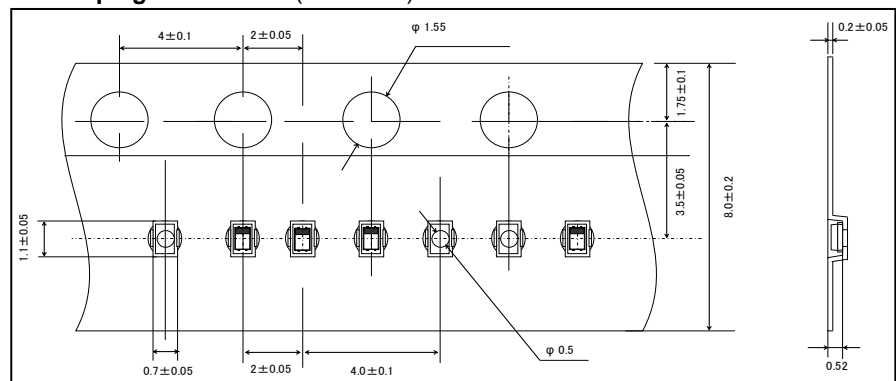
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



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

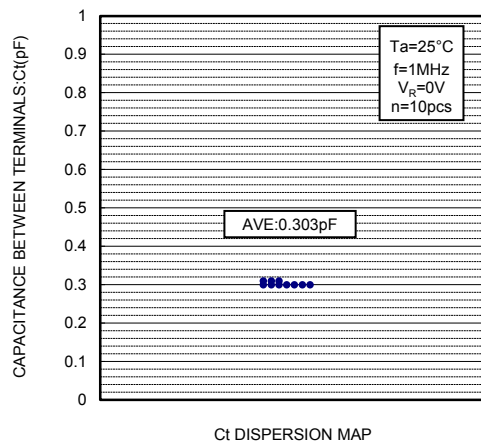
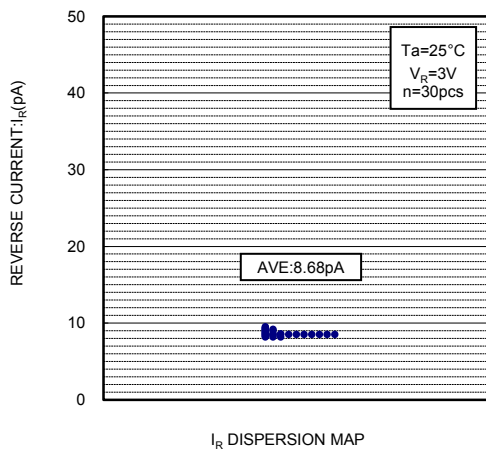
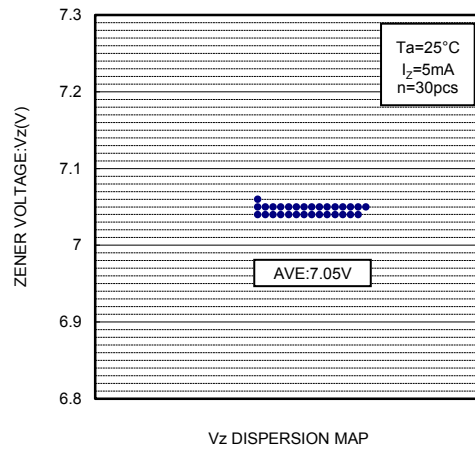
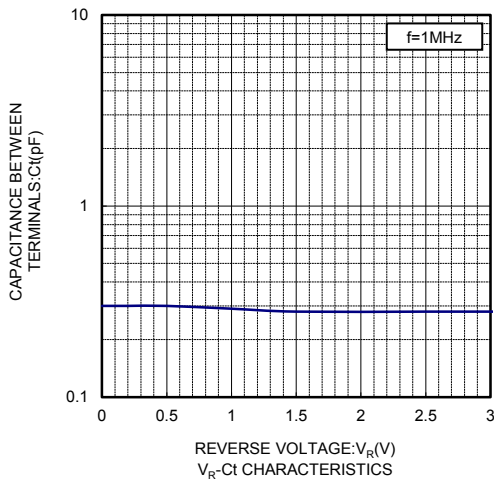
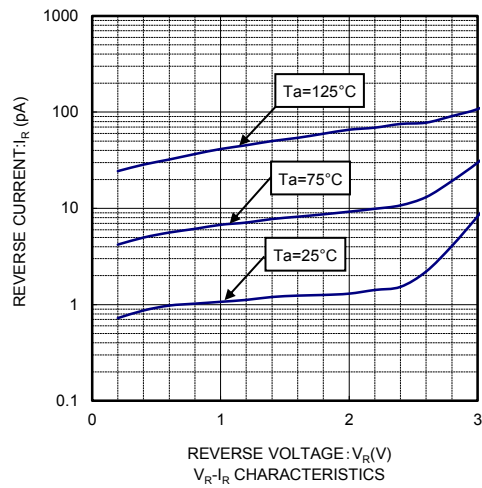
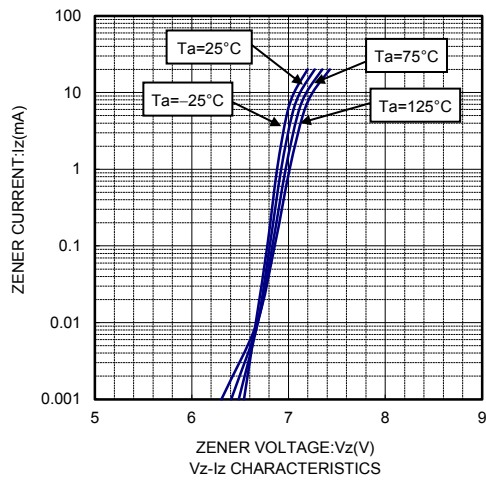
Parameter	Symbol	Limits	Unit
Power dissipation	P	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

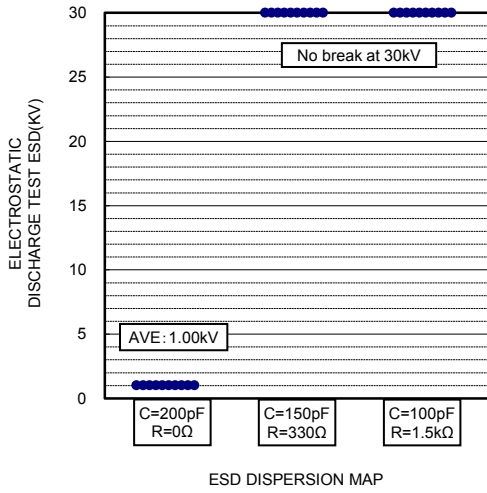
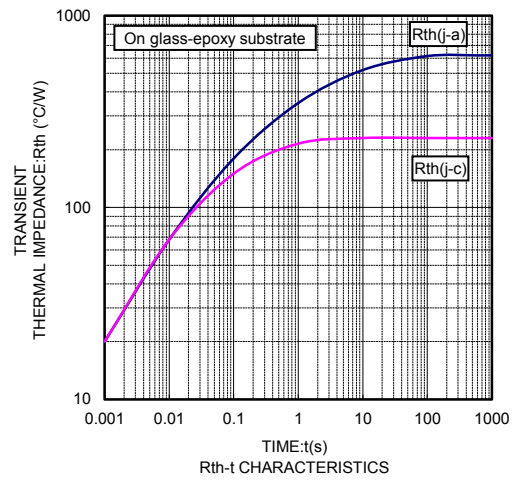
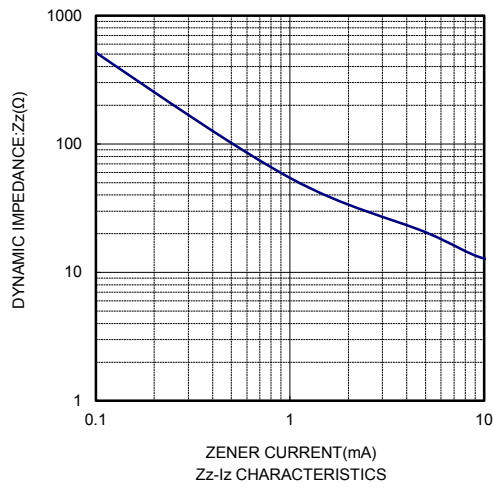
● **Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.7	-	7.33	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	-	-	1.0	μA	V <sub>R</sub> =3.0V
Capacitance between terminals	C <sub>t</sub>	-	0.3	-	pF	V <sub>R</sub> =0V, f=1MHz

\* Zener voltage (V<sub>Z</sub>) shall be measured at 40ms after loading current.

\* Electrical characteristic assurance is just only zener direction.





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