

# ESD Protection diode

## STZC6.8N

**●Application**

ESD Protection, bi direction

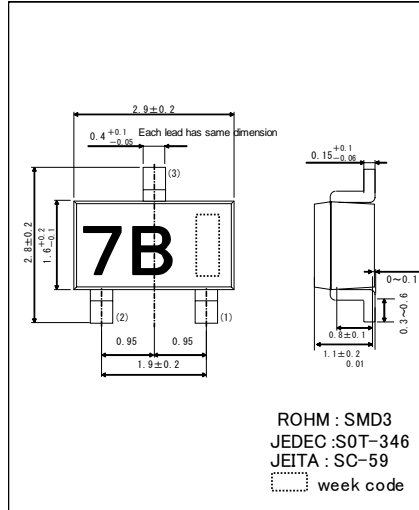
**●Features**

- 1) Ultra small mold type. (SMD3)
- 2) High reliability.
- 3) Ultra low capacitance

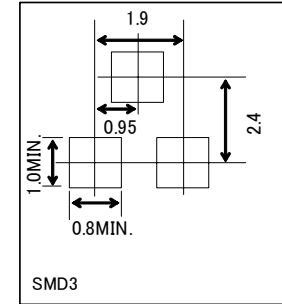
**●Construction**

Silicon epitaxial planar

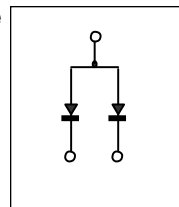
**●External dimensions (Unit : mm)**



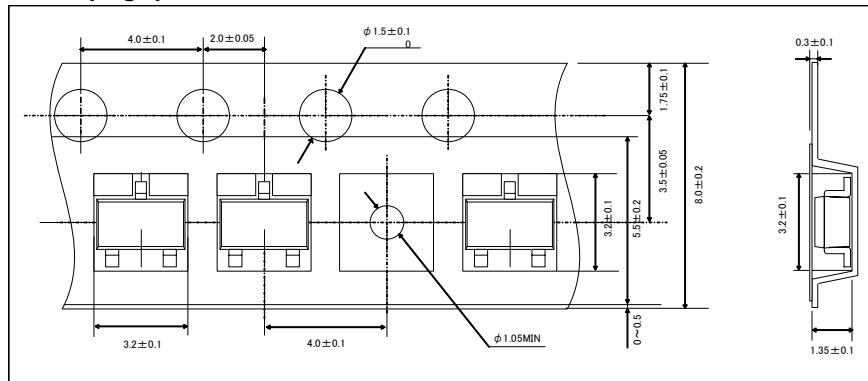
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping specifications**



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

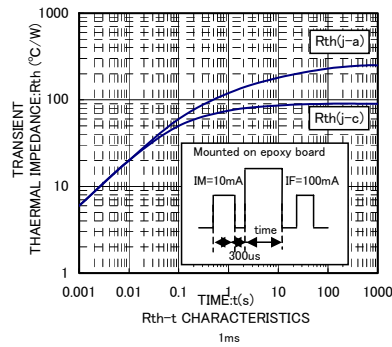
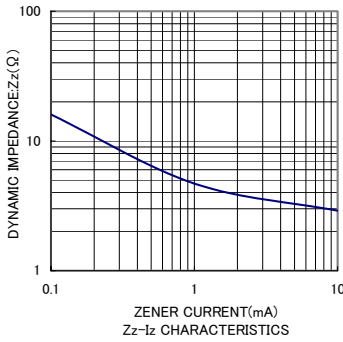
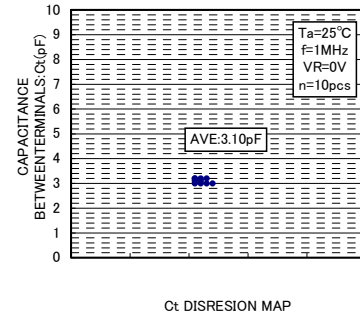
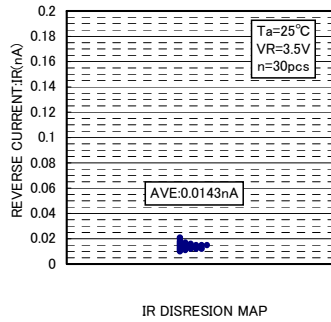
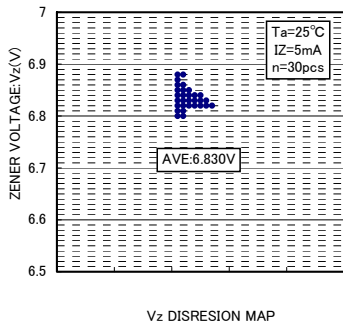
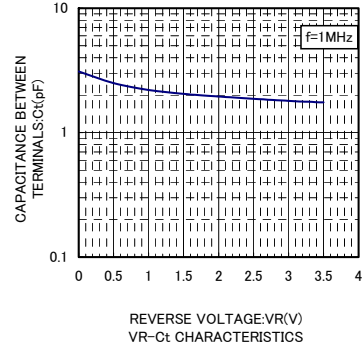
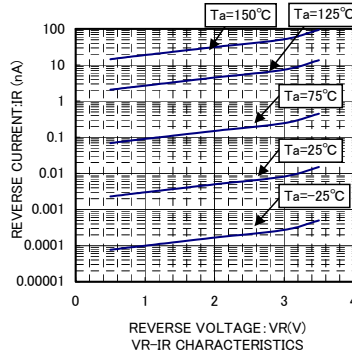
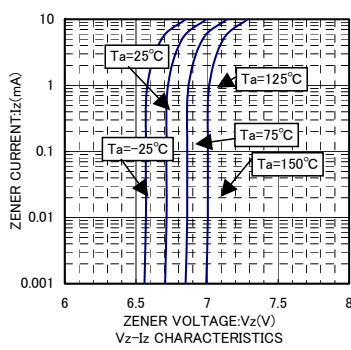
Parameter	Symbol	Limits	Unit
Power dissipation (*1)	P	200	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

**●Electrical characteristics (Ta=25°C, Rating of per diode)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.47	-	7.14	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	-	-	0.50	μA	V <sub>R</sub> =3.5V
Capacitance between terminals	C <sub>t</sub>	-	3	-	pF	V <sub>R</sub> =0V, f=1MHz

Diodes

●Electrical characteristic curves



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