

# ESD Protection diode

## STZC6.8N

●Applications

ESD Protection, bi direction

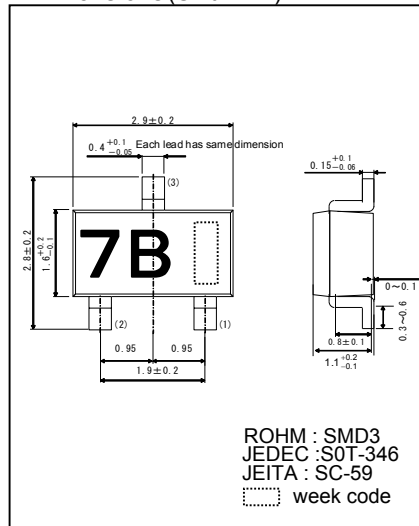
●Features

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

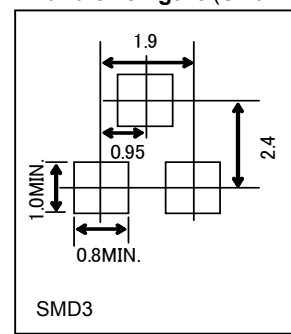
●Construction

Silicon epitaxial planar

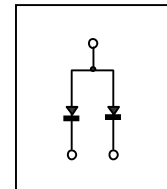
●Dimensions (Unit : mm)



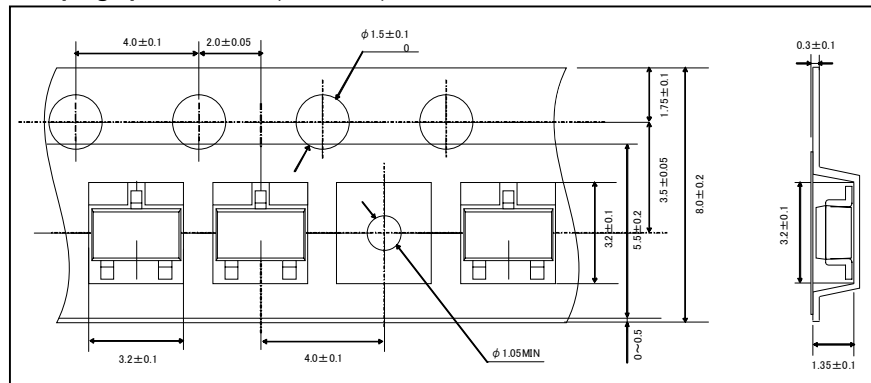
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

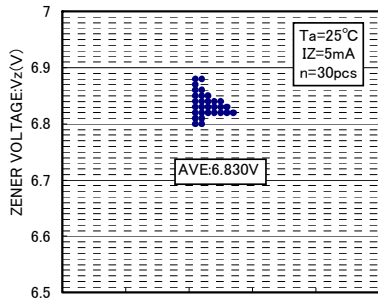
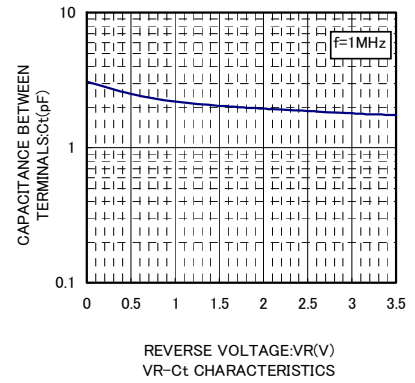
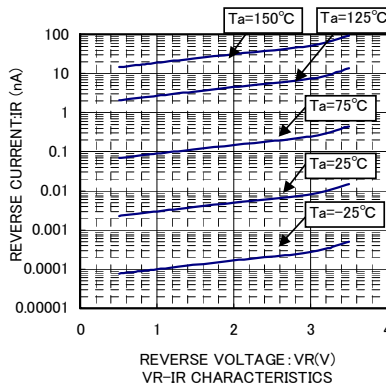
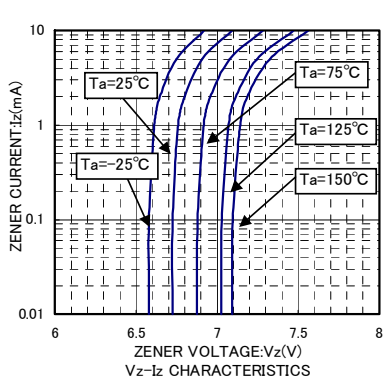


●Absolute maximum ratings (Ta=25°C)

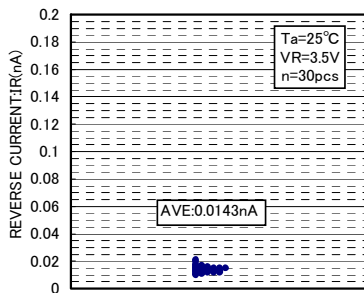
Parameter	Symbol	Limits	Unit
Power dissipation (*1)	P	200	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

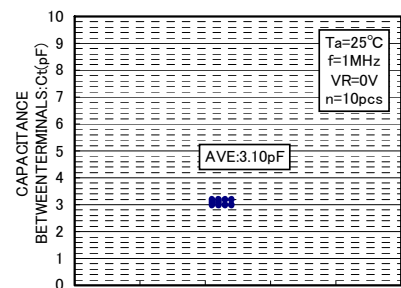
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>z</sub>	6.47	-	7.14	V	I <sub>z</sub> =5mA
Reverse current	I <sub>R</sub>	-	-	0.50	μA	V <sub>R</sub> =3.5V
Capacitance between terminals	C <sub>t</sub>	-	3		pF	V <sub>R</sub> =0V, f=1MHz



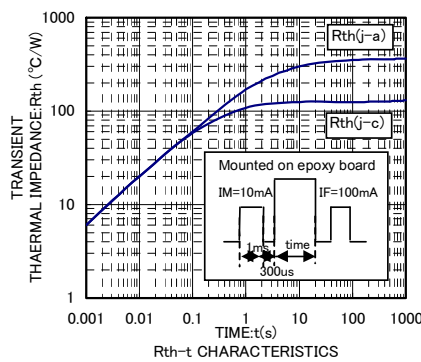
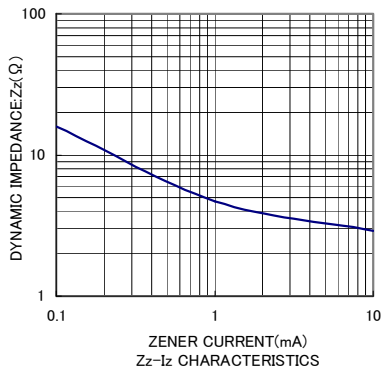
$V_z$  DISRESION MAP



$I_R$  DISRESION MAP



$C_t$  DISRESION MAP



$R_{th}$ - $t$  CHARACTERISTICS

## Notes

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