

# Zener diode

## STZ6.8N

●Applications

Voltage regulation  
(Anode common twin type)

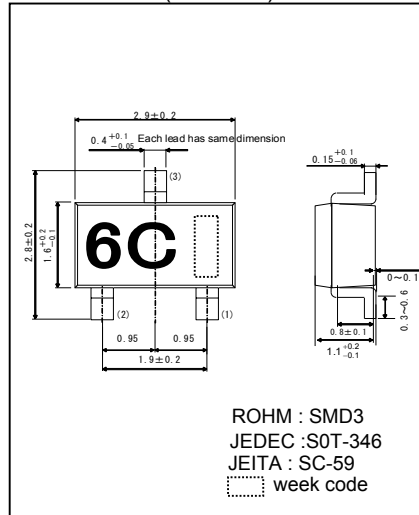
●Features

- 1) Small mold type. (SMD3)
- 2) High reliability.

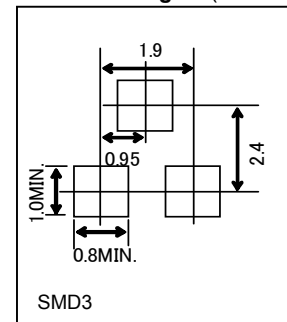
●Construction

Silicon epitaxial planar

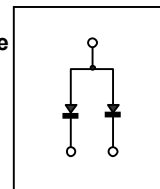
●Dimensions (Unit : mm)



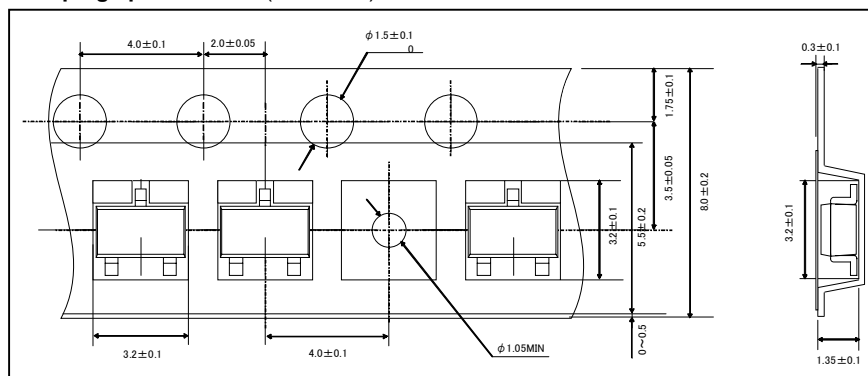
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



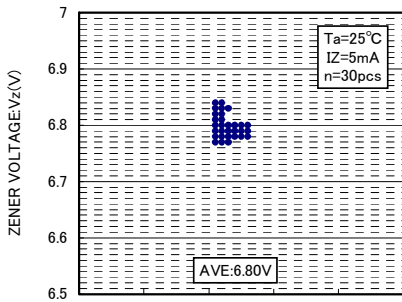
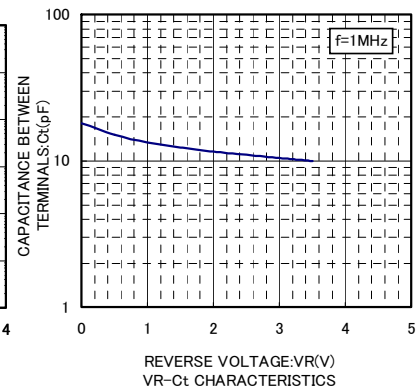
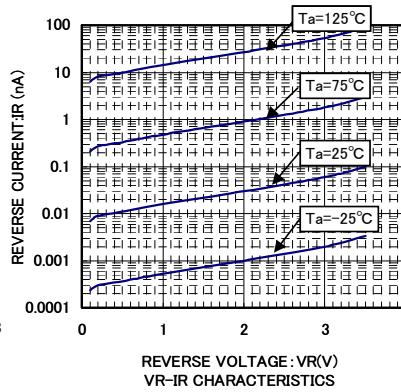
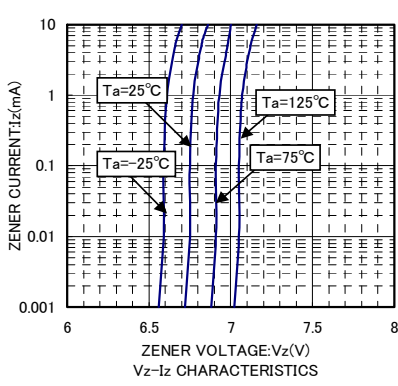
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation (*1)	P	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

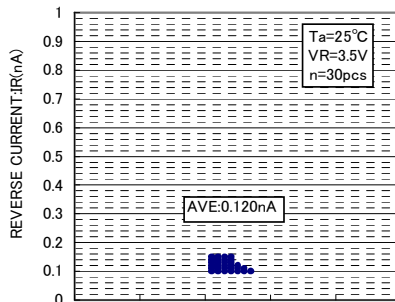
(\*1) Total of 2 elements

●Electrical characteristics (Ta=25°C)

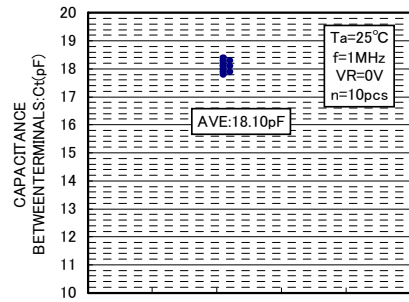
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.47	-	7.14	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	-	-	0.50	μA	V <sub>R</sub> =3.5V
Dynamic impedance	Z <sub>Z</sub>	-	-	40	Ω	I <sub>Z</sub> =5mA
Zener impedance	Z <sub>Zk</sub>	-	-	60	Ω	I <sub>Z</sub> =0.5mA



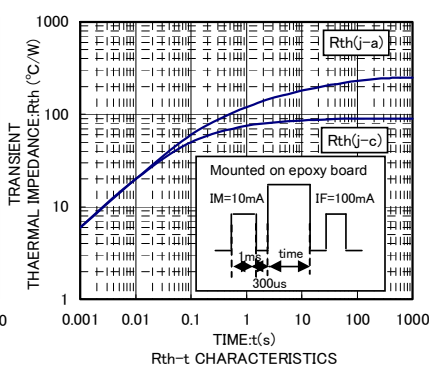
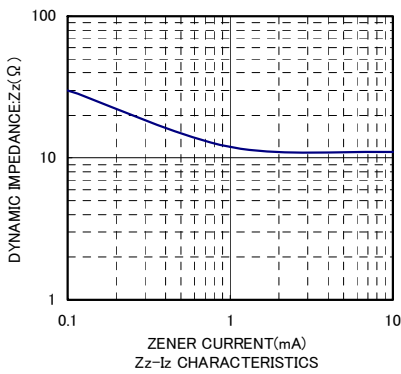
$V_z$  DISRESION MAP



$I_R$  DISRESION MAP



$C_t$  DISRESION MAP



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