

# Zener diode

## FTZ6.8E

●Applications

Voltage regulation  
(Anode common twin type)

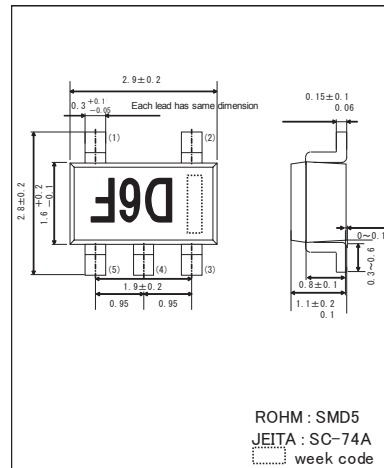
●Features

- 1) Small mold type. (SMD5)
- 2) High reliability.

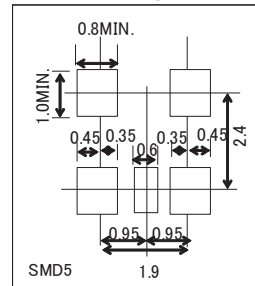
●Construction

Silicon epitaxial planar

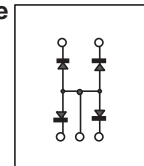
●External dimensions (Unit : mm)



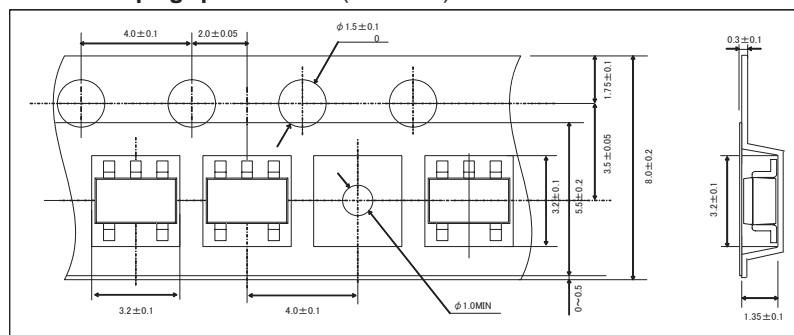
●Land size figure (Unit : mm)



●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

(※) Total of 4 elements

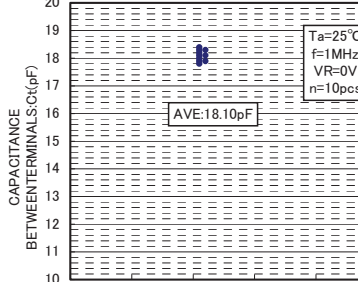
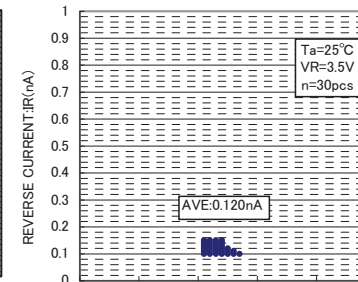
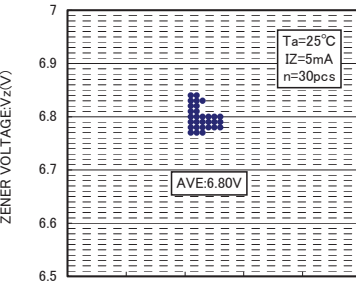
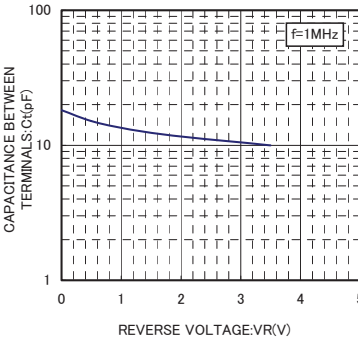
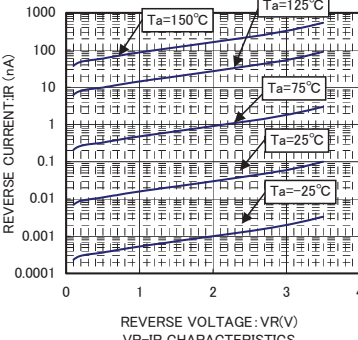
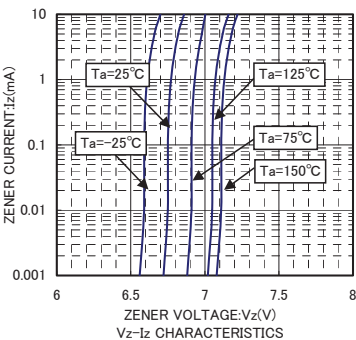
●Electrical characteristics (Ta=25°C) (\* Per chip)

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>	-	-	0.5	μA	V <sub>R</sub> =3.5V
Operating resistance	Z <sub>Z</sub>	-	-	40	Ω	I <sub>Z</sub> =5mA
Rising operating resistance	Z <sub>Zk</sub>	-	-	60	Ω	I <sub>Z</sub> =0.5mA

※Zener voltage is measured with 40msec current supply.

Diodes

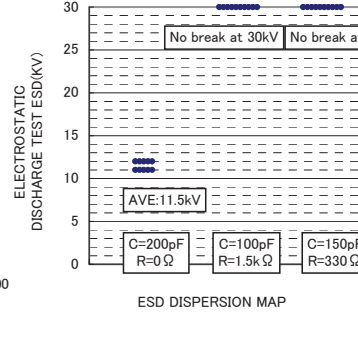
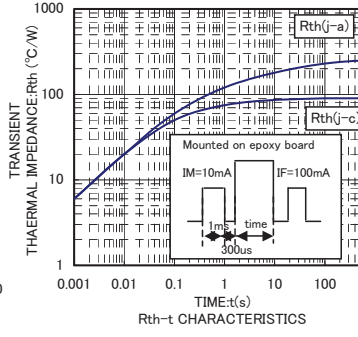
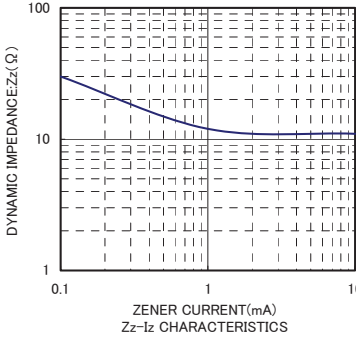
●Electrical characteristic curves (Ta=25°C)



V<sub>Z</sub> DISRESION MAP

I<sub>R</sub> DISRESION MAP

C<sub>t</sub> DISRESION MAP



Z<sub>i</sub>-I<sub>Z</sub> CHARACTERISTICS

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

ESD DISPERSION MAP

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