

# ESD Protection Diode

## EMZC6.8N

●Applications

ESD Protection

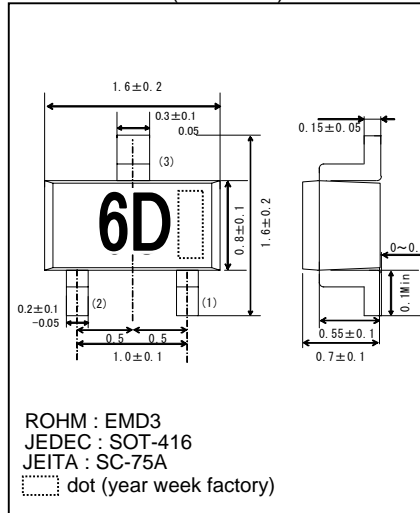
●Features

- 1) Ultra small mold type. (EMD3)
- 2) Low Capacitance

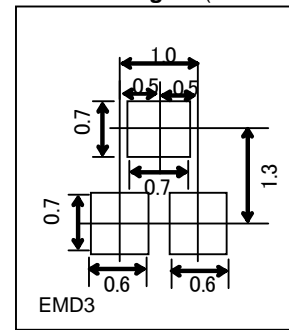
●Construction

Silicon epitaxial

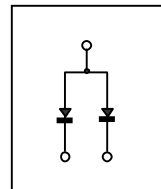
●Dimensions (Unit : mm)



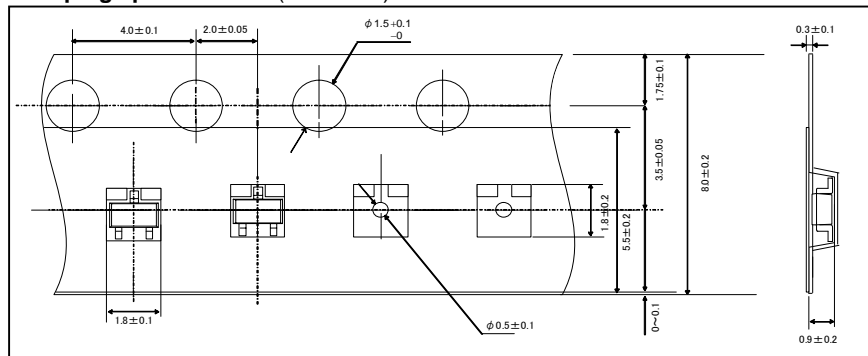
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



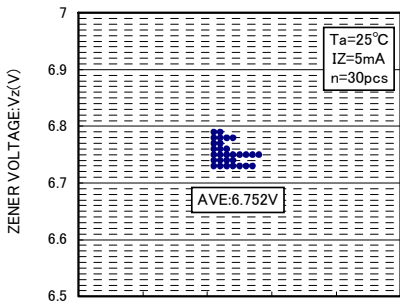
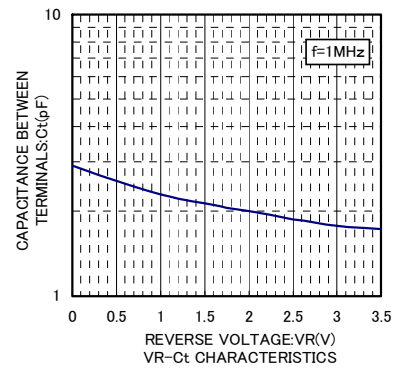
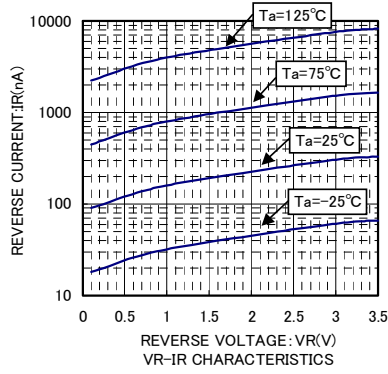
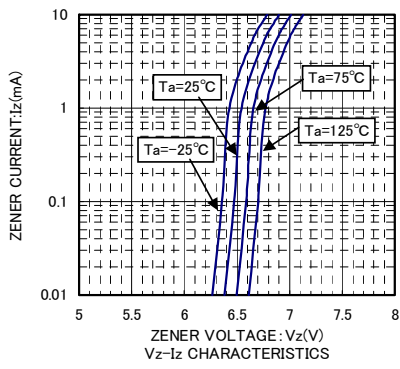
●Absolute maximum ratings (Ta=25°C)

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

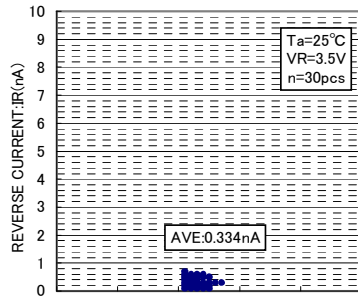
(\*1) Total of 2 elements

●Electrical characteristics (Ta=25°C)

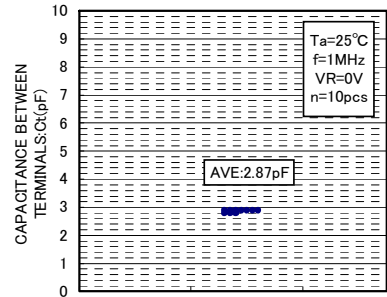
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.65	-	6.93	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	-	-	0.50	μA	V <sub>R</sub> =3.5V
Capacitance between terminals	C <sub>t</sub>	-	3	-	pF	f=1MHz, V <sub>R</sub> =0V



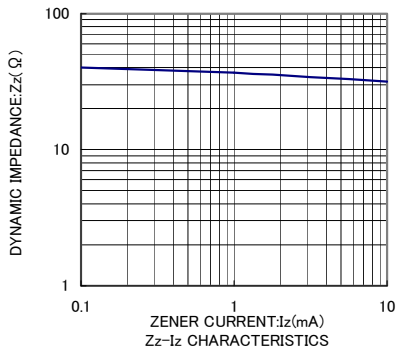
$V_z$  DISPERSION MAP



$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP



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