

# ESD Protection diode

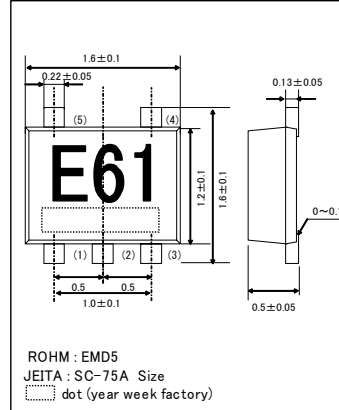
## RSA 6.1J4

●Application  
ESD protection

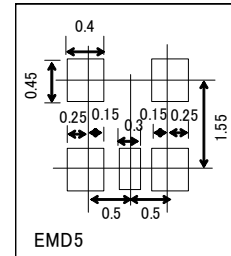
●Features  
1) Ultra small mold type. (EMD5)  
2) High reliability.

●Construction  
Silicon epitaxial planar

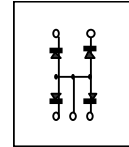
●Dimensions (Unit : mm)



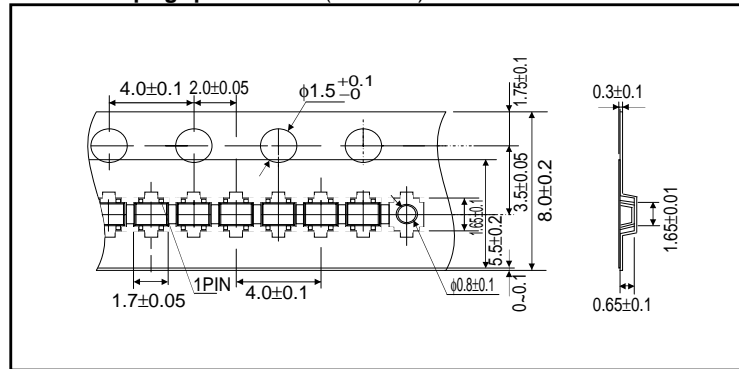
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

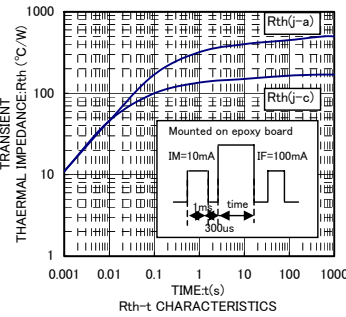
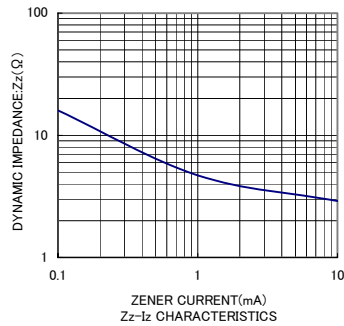
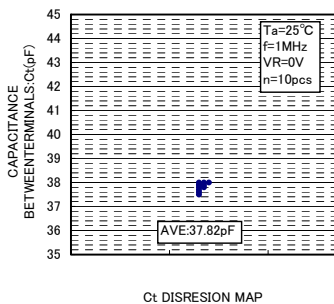
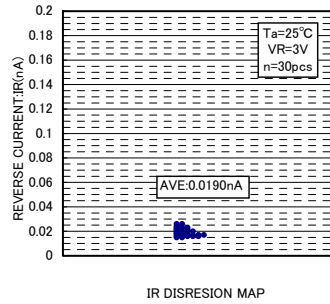
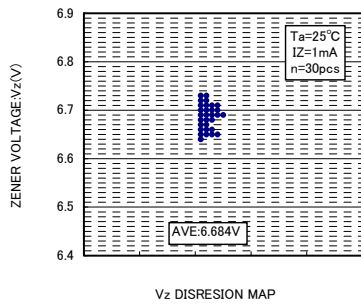
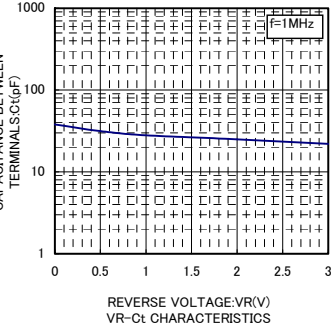
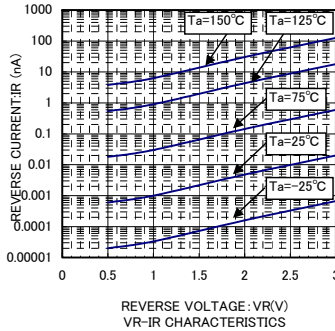
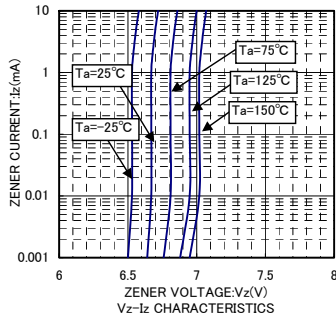
Parameter	Symbol	Limits	Unit
Peak pulse power-1 (tp=10x1000us)	P <sub>pk</sub>	10	W
Peak pulse power-2 (tp=8x20us)	P <sub>pk</sub>	80	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.1	-	7.20	V	I <sub>Z</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	1.0	μA	V <sub>R</sub> =3.0V
Forward voltage	V <sub>F</sub>	-	-	1.0	V	I <sub>F</sub> =100mA
Capacitance between terminals	C <sub>t</sub>	-	35	-	pF	f=1MHz, V <sub>R</sub> =0V

Diodes

● Electrical characteristic curves (Ta=25°C)



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