

ESD Protection diode

RSA 6.1J4

●Application

ESD protection

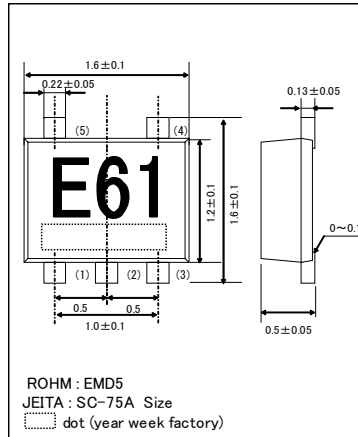
●Features

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

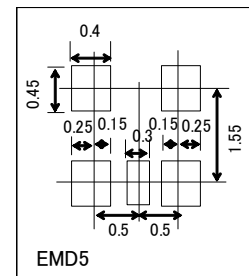
●Construction

Silicon epitaxial planar

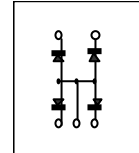
●External dimensions (Unit : mm)



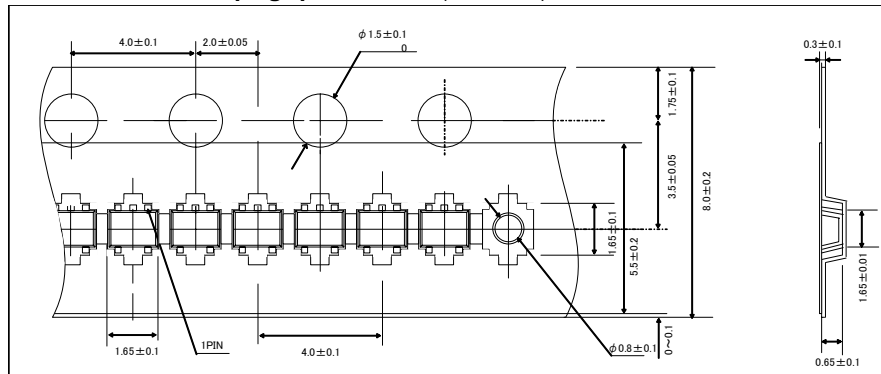
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

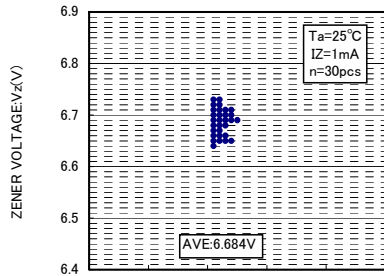
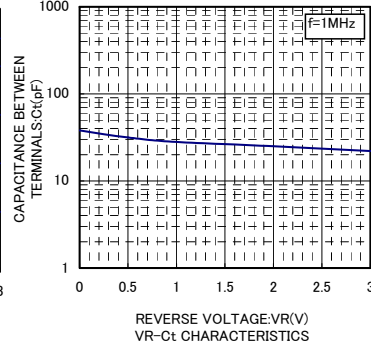
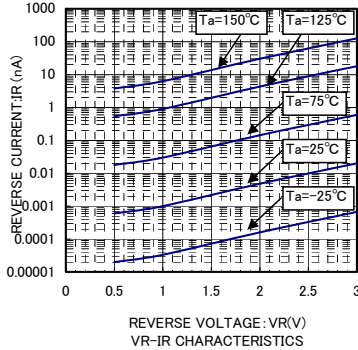
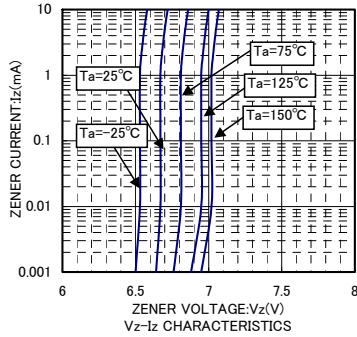
Parameter	Symbol	Limits	Unit
Peak pulse power-1 (tp=10×1000us)	P _{pk}	10	W
Peak pulse power-2 (tp=8×20us)	P _{pk}	80	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

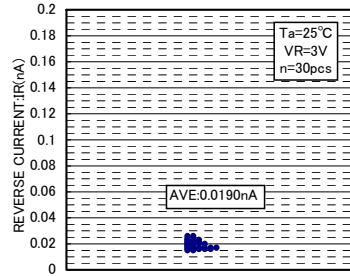
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _Z	6.1	-	7.20	V	I _Z =1mA
Reverse current	I _R	-	-	1.0	μA	V _R =3.0V
Forward voltage	V _F	-	-	1.0	V	I _F =100mA
Capacitance between terminals	C _t	-	35	-	pF	f=1MHz, V _R =0V

Diodes

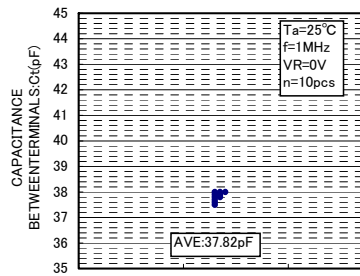
●Electrical characteristic curves (Ta=25°C)



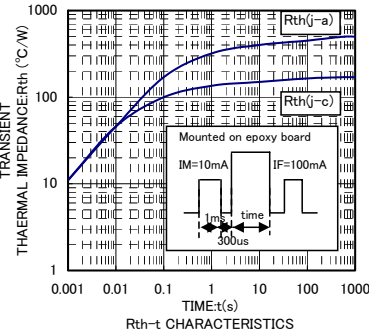
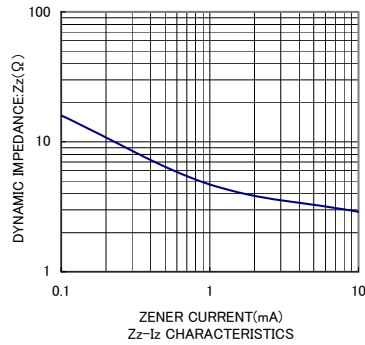
V_Z DISRESION MAP



I_R DISRESION MAP



C_t DISRESION MAP



R_{th}-t CHARACTERISTICS

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