

ESD Protection diode

RSA 6.1J4

●Application

ESD protection

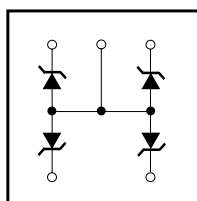
●Features

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

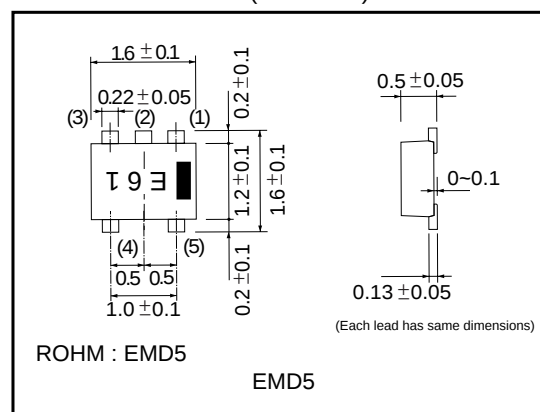
●Construction

Silicon epitaxial planar

●Circuit



●External dimensions (Units : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak pulse power-1 (tp=10×1000μs)	Ppk	10	W
Peak pulse power-2 (tp=8×20μs)	Ppk	80	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Electrical characteristics (Ta=25°C) * Rating of per diode.

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	Vz	6.10	—	7.20	V	Iz=1mA
Reverse current	IR	—	—	1	μA	VR=3.0V
Forward voltage	VF	—	—	1.0	V	IF=100mA
Junction capacitance	Ct	—	35	—	pF	VR=0V, f=1MHz

* Zener voltage (Vz) shall be measured at 40ms after loading current.

* Please pay attention to static electricity when handling.

Diodes

●Others

Parameter	IEC-1000-4-2
Equipment composition	Charge discharge capacitance : 150pF Discharge resistance : 330Ω
Criterion	Repeat by 10 times No erroneous operation Contact : ±9kV In air : ±16kV

●Electrical characteristic curves (Ta=25°C)

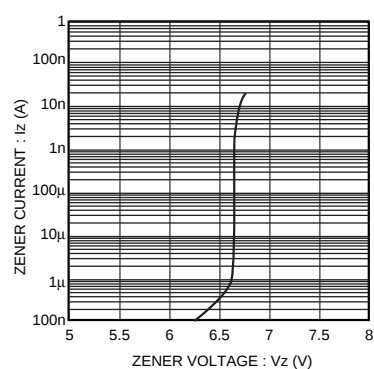


Fig.1 Zener voltage characteristics

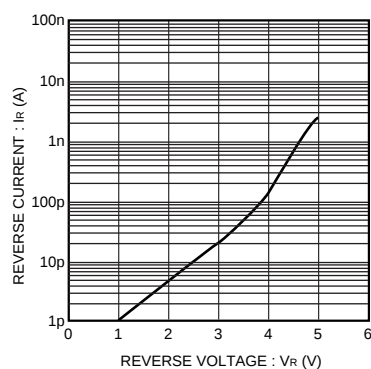


Fig.2 Reverse characteristics

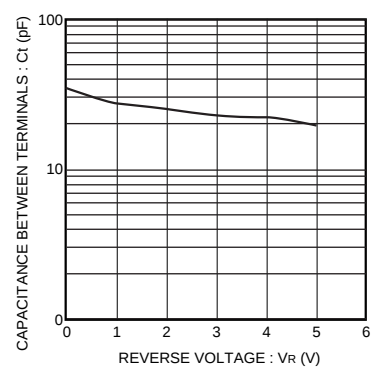


Fig.3 Capacitance between terminals characteristics

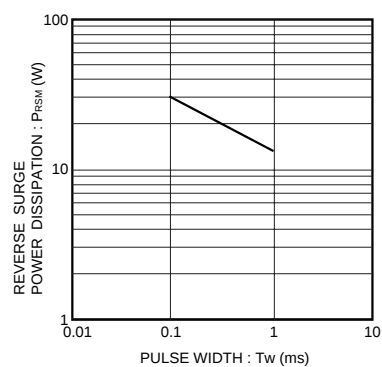


Fig.4 Surge power dissipation

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