

# ESD Protection Device (TVS)

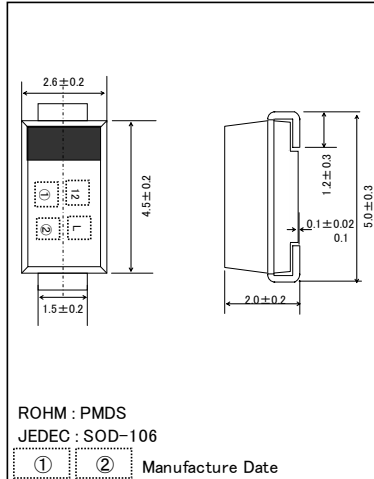
## RSA12L

●Applications  
ESD Protection

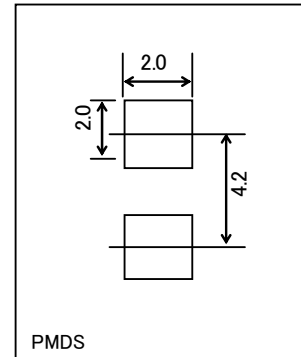
●Features  
1) Small power mold type. (PMDS)  
2) High reliability

●Construction  
Silicon epitaxial planar

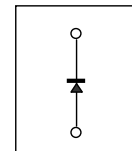
●Dimensions (Unit : mm)



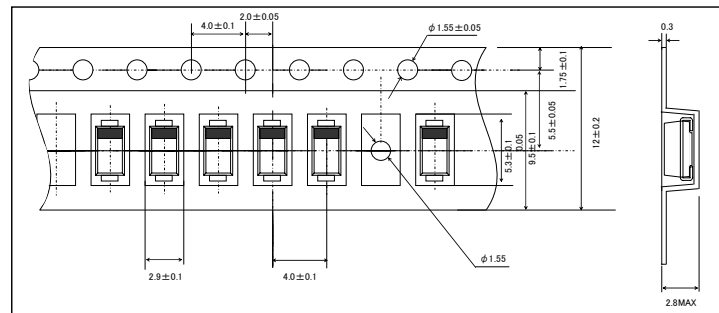
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

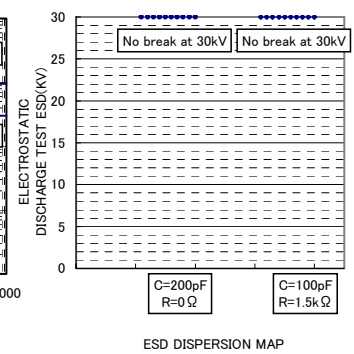
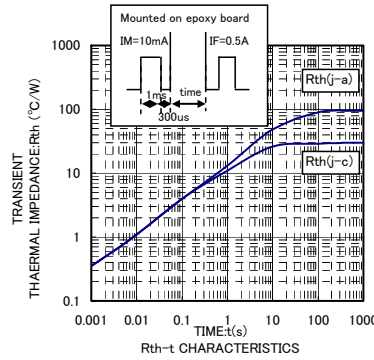
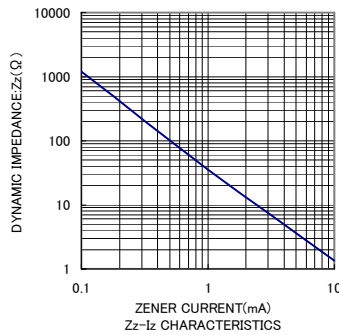
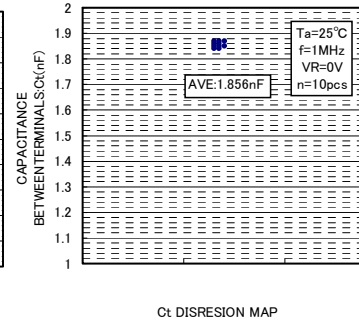
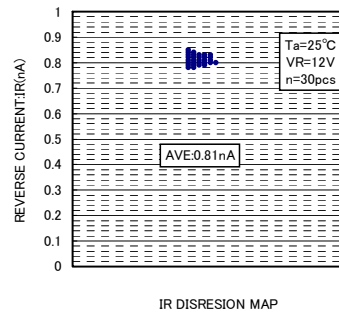
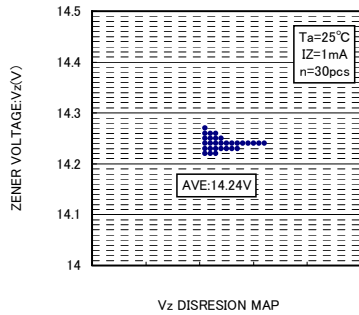
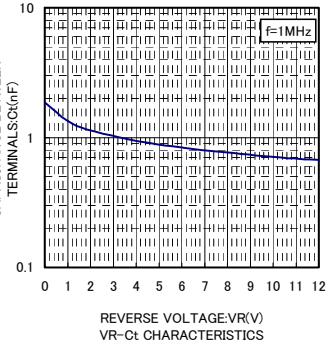
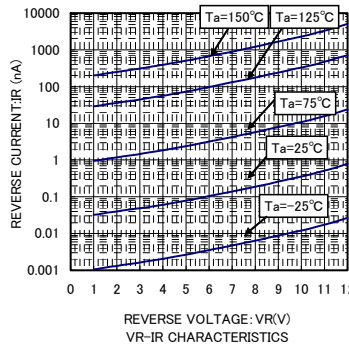
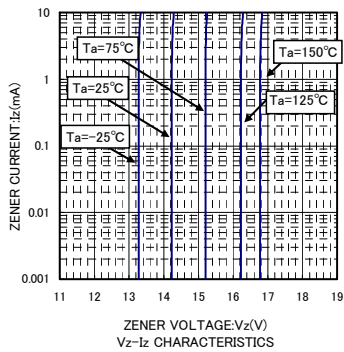
Parameter	Symbol	Limits	Unit
Peak pulse power (tp=10×1000us)	Ppk	600	W
Stand off power	V <sub>RMN</sub>	12	V
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Breakdown voltage	VBR	13.3	-	14.7	V	I <sub>R</sub> =1mA
Clamping voltage	VC	-	-	19.5	V	I <sub>pp</sub> =31.0A
Reverse current	IR	-	-	2.5	uA	V <sub>RMN</sub> =12.0V

Diodes

● Electrical characteristic curves (Ta=25°C)



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