

# ESD Protection diode

## RSA6.1U5

●Application

ESD Protection

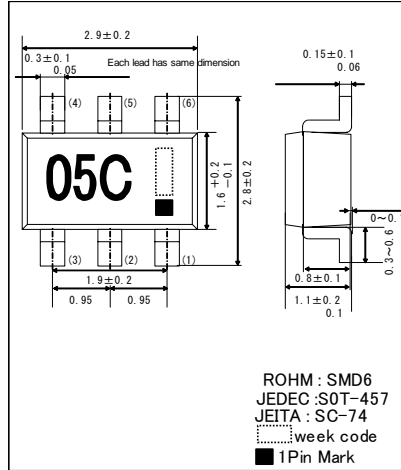
●Features

- 1) Small mold type. (SMD6)
- 2) High reliability.

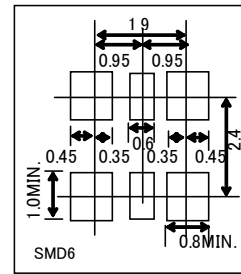
●Construction

Silicon epitaxial planar

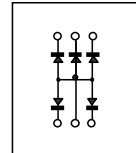
●External dimensions (Unit : mm)



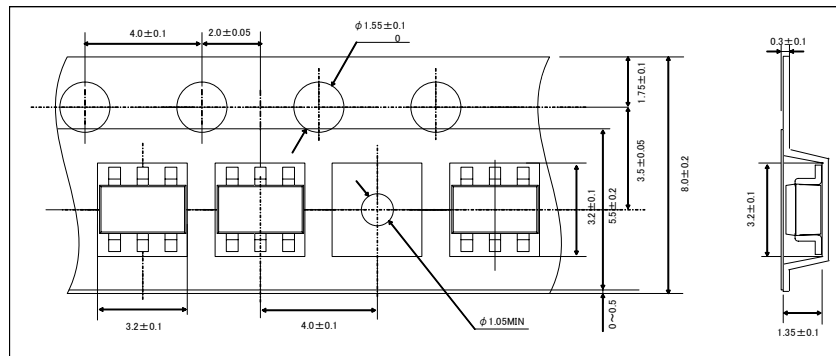
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

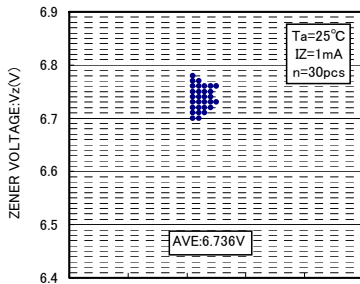
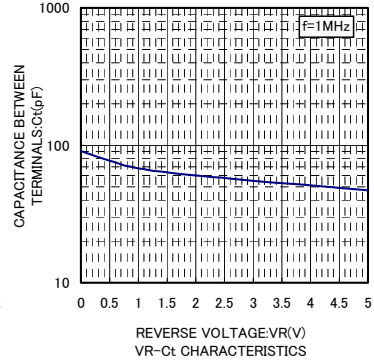
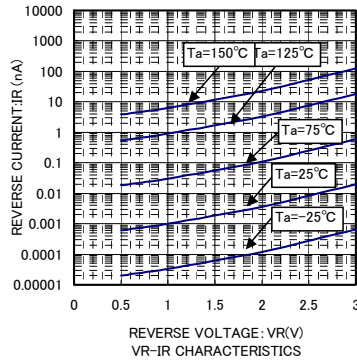
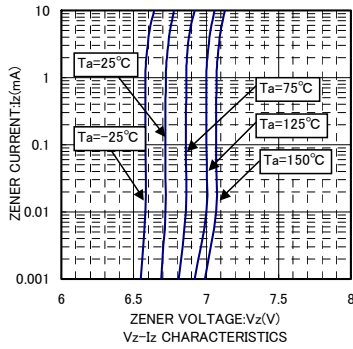
Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Peak Pulse Power-1(tp=10×1000us)	Ppk	30	mW
Peak Pulse Power-2(tp=10×1000us)	Ppk	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

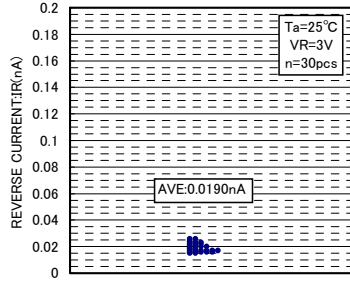
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.1	-	7.2	V	I <sub>Z</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	1	μA	V <sub>R</sub> =3.0V
Forward current	V <sub>F</sub>	-	-	1.25	V	I <sub>F</sub> =200mA
Junction capacitance	C <sub>t</sub>	-	-	200	pF	V <sub>R</sub> =0V, f=1MHz

Diodes

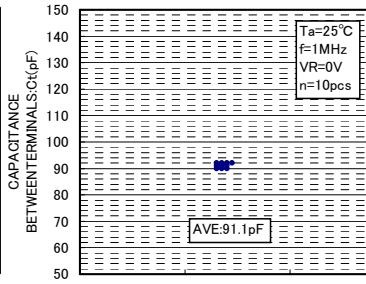
●Electrical characteristic curves (Ta=25°C)



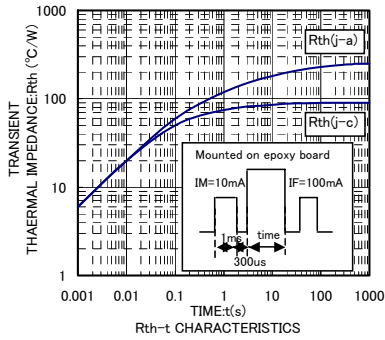
Vz DISRESION MAP



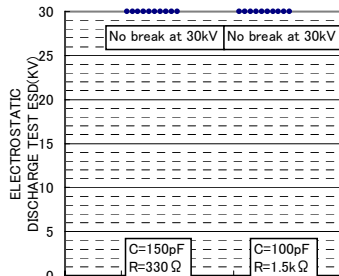
IR DISRESION MAP



Ct DISRESION MAP



Rth-t CHARACTERISTICS



ESD DISPERSION MAP

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