



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ESD Protection diode

RSA6.1U5

●Application

ESD Protection

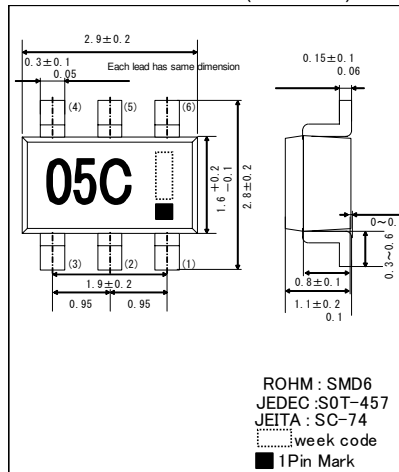
●Features

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

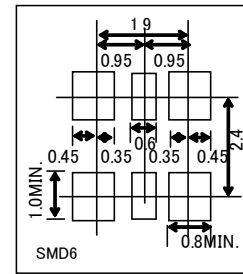
●Construction

Silicon epitaxial planar

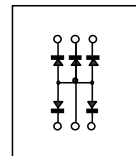
●External dimensions (Unit : mm)



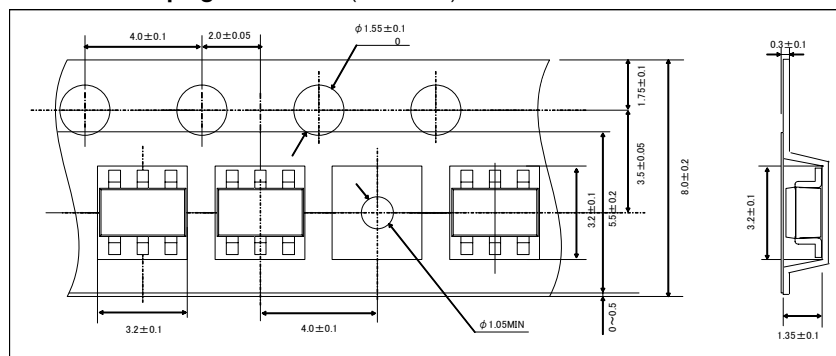
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

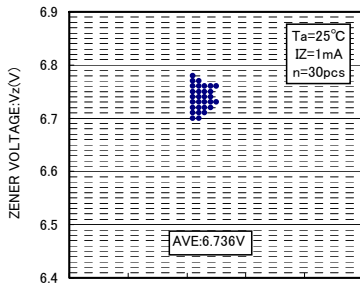
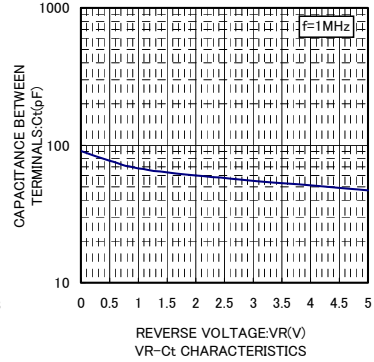
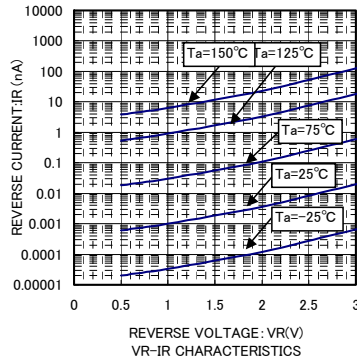
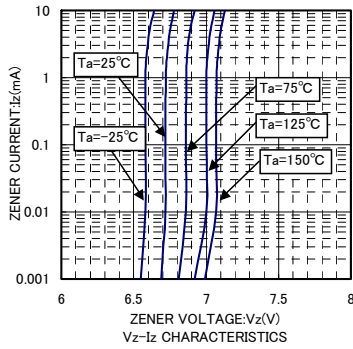
Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Peak Pulse Power-1 (tp=10×1000us)	Ppk	30	mW
Peak Pulse Power-2 (tp=10×1000us)	Ppk	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

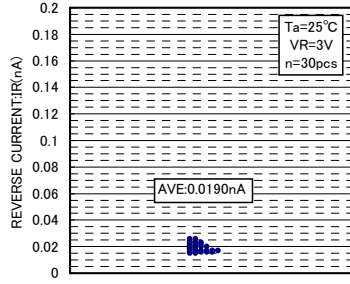
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	Vz	6.1	-	7.2	V	Iz=1mA
Reverse current	IR	-	-	1	μA	VR=3.0V
Forward current	VF	-	-	1.25	V	IF=200mA
Junction capacitance	Ct	-	-	200	pF	VR=0V, f=1MHz

Diodes

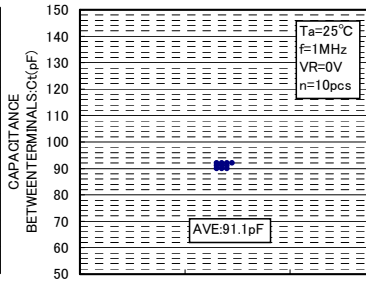
●Electrical characteristic curves (Ta=25°C)



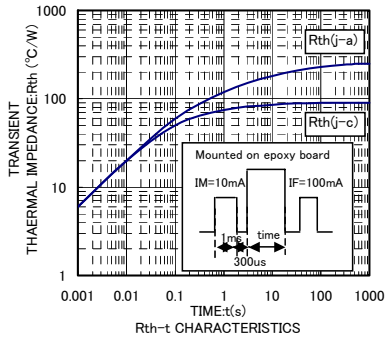
V_Z DISRESION MAP



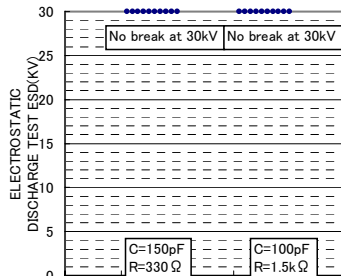
IR DISPERSION MAP



Ct DISPERSION MAP



R_{th-t} CHARACTERISTICS



ESD DISPERSION MAP

Notes

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