



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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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Zener diode

UMZ8.2T

●Applications

Voltage regulation
(Cathode common twin type)

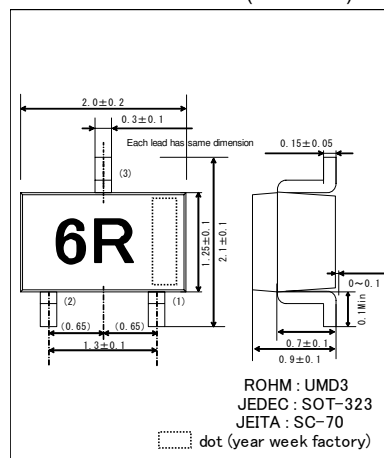
●Features

- 1) Small mold type. (UMD3)
- 2) High reliability.

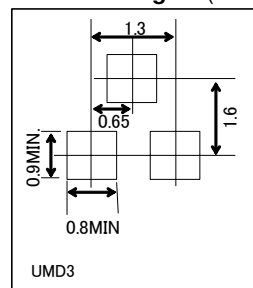
●Construction

Silicon epitaxial planar

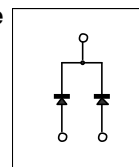
●External dimensions (Unit : mm)



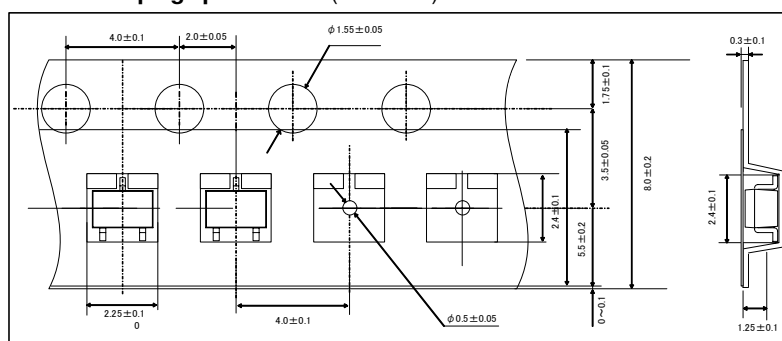
●Land size figure (Unit : mm)



●Structure



●Taping specification (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation (*1)	P	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

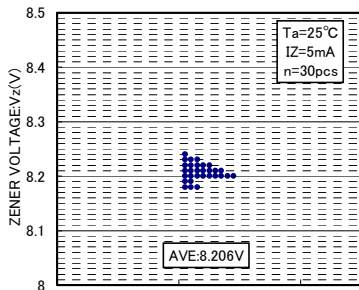
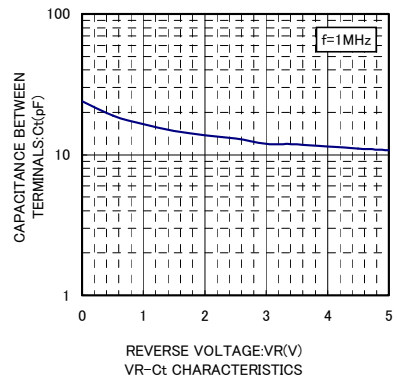
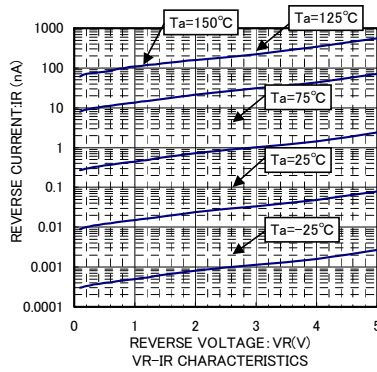
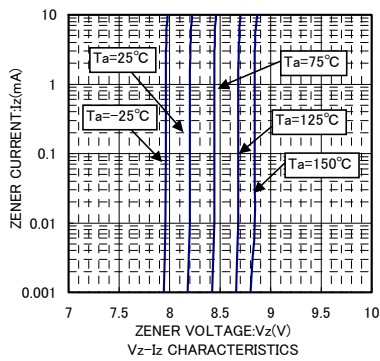
(*1) Total of 2 elements

●Electrical characteristics (Ta=25°C)

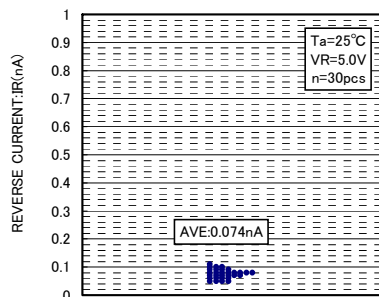
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _Z	7.76	-	8.64	V	I _Z =5mA
Reverse current	I _R	-	-	0.50	μA	V _R =5V
Operating resistance	Z _Z	-	-	30	Ω	I _Z =5mA
Rising operating resistance	Z _{Zk}	-	-	60	Ω	I _Z =0.5mA

Diodes

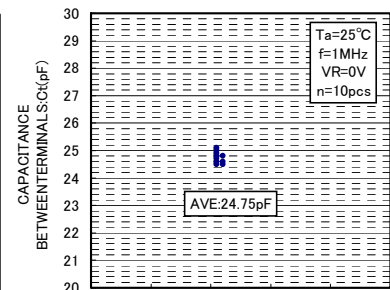
●Electrical characteristic curves (Ta=25°C)



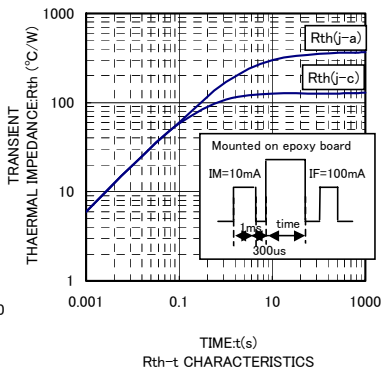
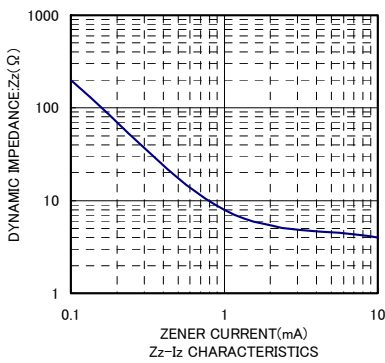
Vz DISRESION MAP



IR DISRESION MAP



Ct DISRESION MAP



Rth-t CHARACTERISTICS

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