

Zener diode

UMZ6.8EN

●Application

Voltage regulation
(Anode common twin type)

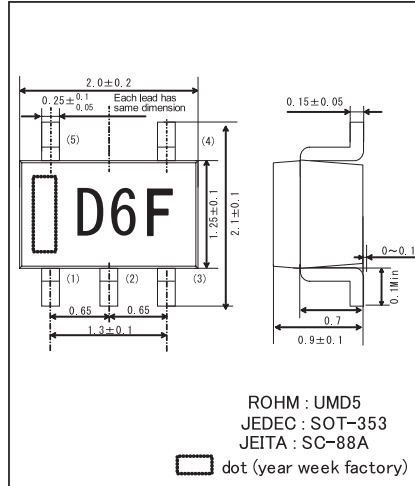
●Features

- 1) Small mold type. (UMD5)
- 2) High reliability.

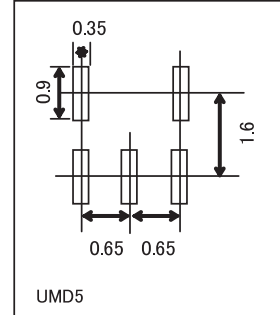
●Structure

Silicon epitaxial planer

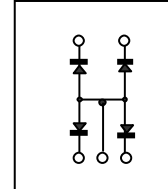
●Dimensions (Unit : mm)



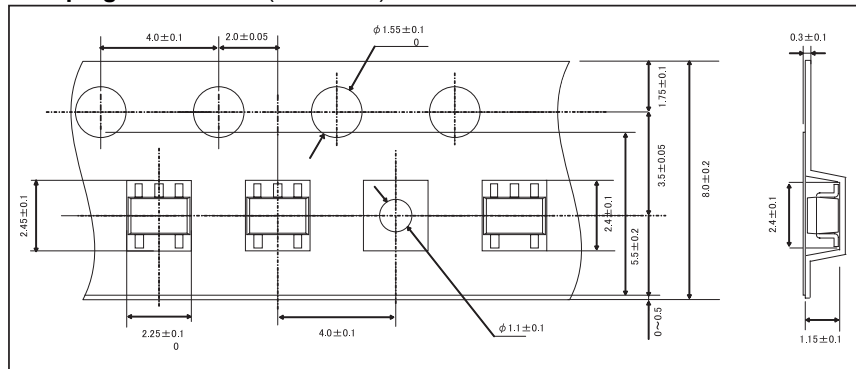
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

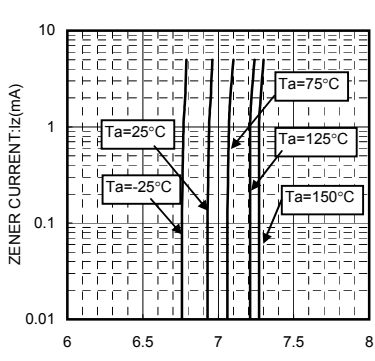
Parameter	Symbol	Limits	Unit
Power dissipation (*1)	P	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

(*1) Total of 2 elements

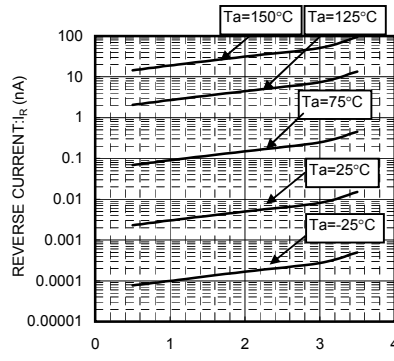
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _Z	6.47	-	7.14	V	I _Z =5mA
Reverse current	I _R	-	-	0.50	μA	V _R =3.5V
Dynamic impedance	Z _Z	-	-	40	Ω	I _Z =5mA

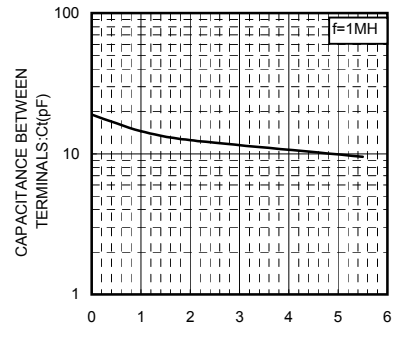
●Electrical characteristics curves



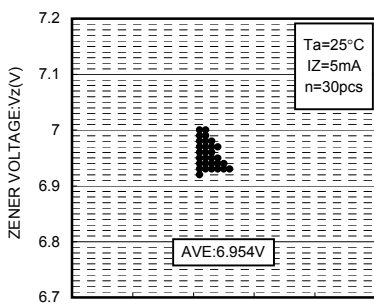
ZENER VOLTAGE : $V_z(V)$
 V_z-I_z CHARACTERISTICS



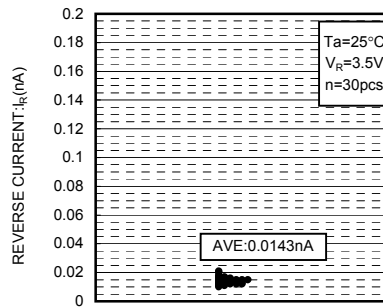
REVERSE VOLTAGE : $V_R(V)$
 V_R-I_R CHARACTERISTICS



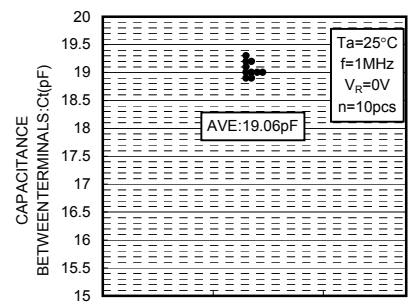
REVERSE VOLTAGE : $V_R(V)$
 V_R-C_t CHARACTERISTICS



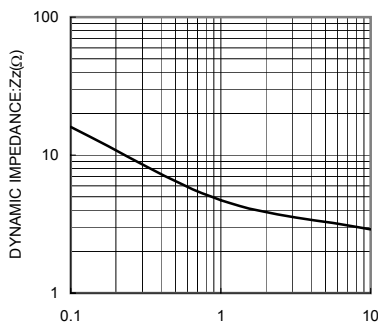
V_z DISREION MAP



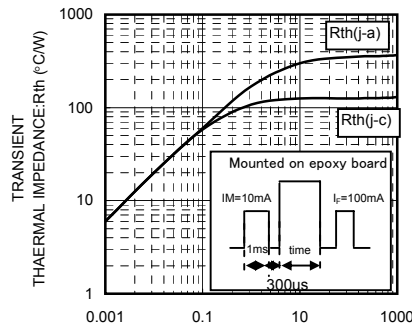
I_R DISREION MAP



C_t DISREION MAP



ZENER CURRENT(mA)
 Z_z-I_z CHARACTERISTICS



TRANSIENT
 THAERMAL IMPEDANCE: R_{th} ($^{\circ}C/W$)
 $R_{th}-t$ CHARACTERISTICS

Notes

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