

# ESD Protection Diode

## UMZC6.8N

● **Applications**

ESD Protection  
(common anode configuration)

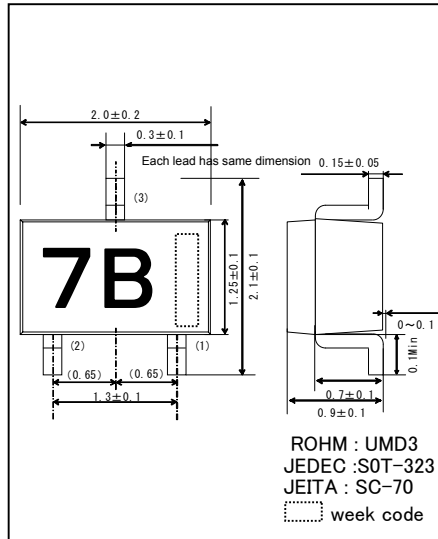
● **Features**

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

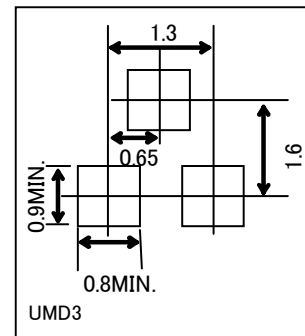
● **Construction**

Silicon epitaxial planar

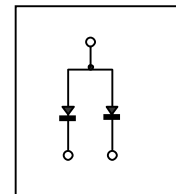
● **Dimensions (Unit : mm)**



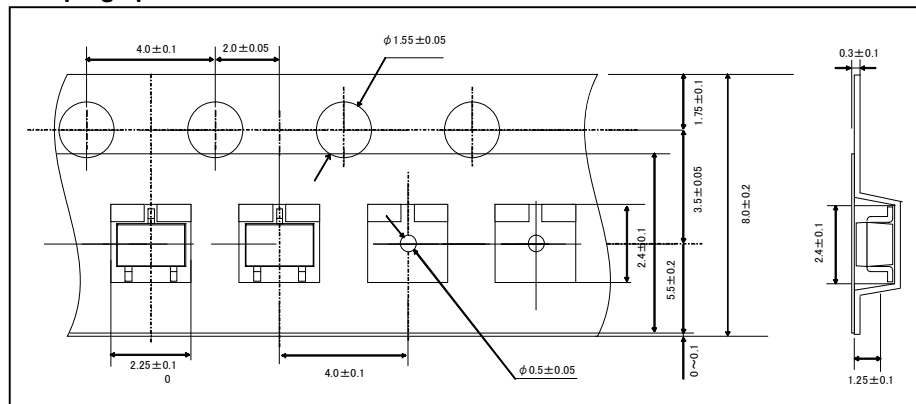
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



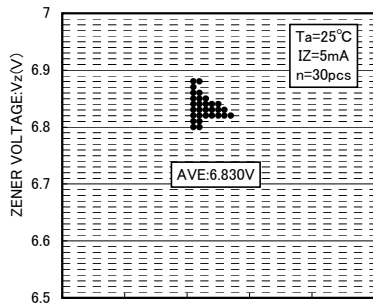
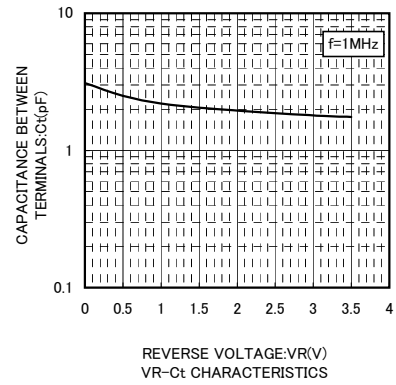
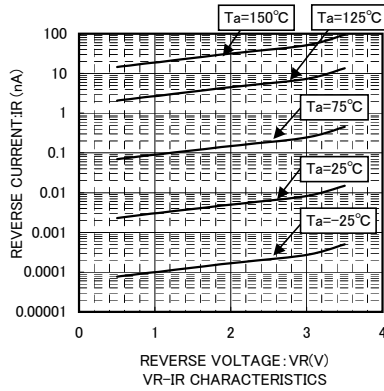
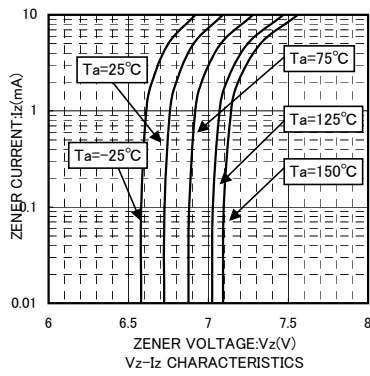
● **Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
Power dissipation	P (※)	200	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

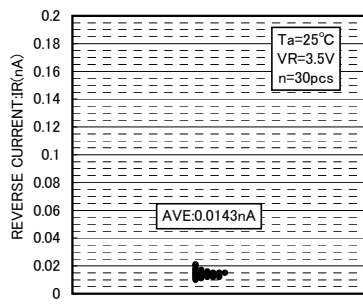
● **Electrical characteristic (Ta=25°C) (\* Rating of per diode)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	6.47	-	7.14	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	-	-	0.50	μA	V <sub>R</sub> =3.5V
Capacitance between terminals	C <sub>t</sub>	-	3	-	pF	V <sub>R</sub> =0V, f=1MHz

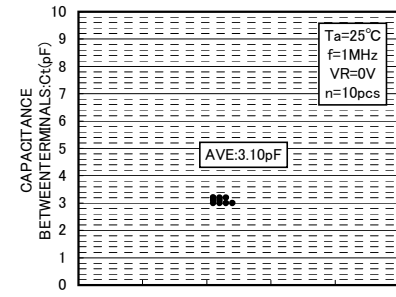
●Electrical characteristic curves



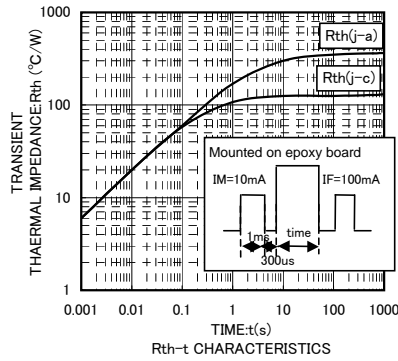
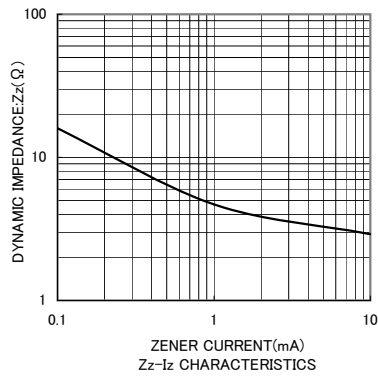
$V_z$  DISRESION MAP



$I_R$  DISRESION MAP



$C_t$  DISRESION MAP



$R_{th-t}$  CHARACTERISTICS

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