ESD Protection diode

UMZC6.8N

Applications

ESD Protection (common anode configuration)

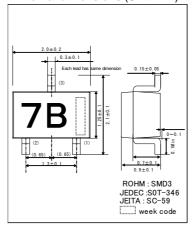
● Features

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

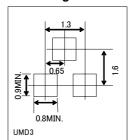
Construction

Silicon epitaxial planer

●External dimensions (Unit : mm)



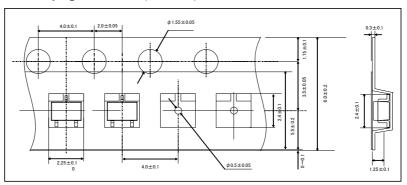
●Land size figure



Structure



● Taping dimensions (Unit: mm)



● Absolute maximum ratings (Ta=25°C)

The solution runings (14-20 0)							
Parameter	Symbol	Limits	Unit				
Power dissipation	P(<u>※</u>)	200	m W				
Junction temperature	T _j	150	°C				
Storage temperature	Tstg	-55 to +150	°C				

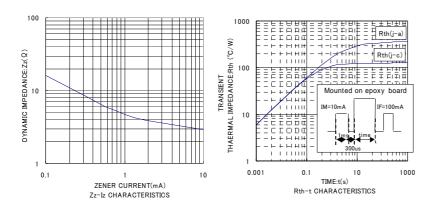
● Electrical characteristic (Ta=25°C) (* Rating of per diode)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Zener voltage	V _Z	6.47	-	7.14	V	I _Z =5mA	
Reverse current	I _R	-	-	0.50	μA	V _R =3.5 V	
Capacitance between terminals	Ct	-	3	-	pF	V _R =0V , f=1MHz	

Ct DISRESION MAP

Electrical characteristic curves Ta=150°C Ta=125°C 10 REVERSE CURRENT:IR (nA) CURRENT:Iz(mA) CAPACITANCE BETWEEN TERMINALS:Ct(pF) 0.01 0.0001 0.00001 1.5 2 2.5 3 5 7 7.5 ZENER VOLTAGE:Vz(V) 0 REVERSE VOLTAGE: VR(V) REVERSE VOLTAGE:VR(V) Vz-Iz CHARACTERISTICS VR-IR CHARACTERISTICS VR-Ct CHARACTERISTICS 0.2 Ta=25°C 0.18 IZ=5mA VR=3.5V f=1MHz BETWEENTERMINALS:Ct(pF) 8 2 9 2 8 8 ZENER VOLTAGE:Vz(V) VR=0V n=10pcs CAPACITANCE AVE:3.10pF 6.7

IR DISRESION MAP



Vz DISRESION MAP

0.04

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