

Zener Diode

UMZ6.8EN

●Applications

Constant voltage control
For the ESD measure of a signal line

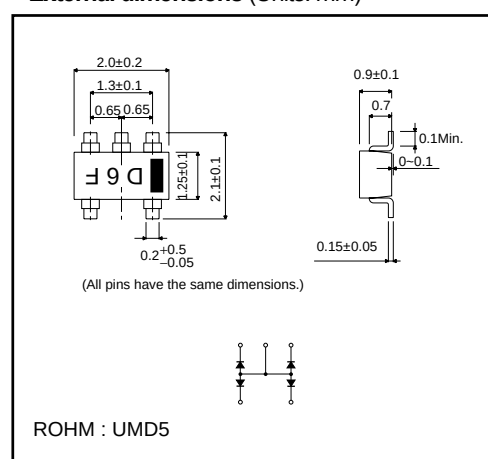
●Features

- 1) Designed for compact surface mounting (UMD5)
- 2) High reliability
- 3) Composite type with four athode common elements

●Construction

Silicon epitaxial planar

●External dimensions (Units: mm)



●Absolute maximum ratings (Ta=25°C)

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

* Total of 4 elements

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _Z	6.47	6.80	7.14	V	I _Z =5mA
Reverse current	I _R	-	-	0.5	μA	V _R =3.5V
Operating resistance	Z _Z	-	-	40	Ω	I _Z =5mA
Capacitance between terminals	C _T	-	9	-	pF	f=1MHz, V _R =5V

●Others

Item	Standard 1	IEC-1000-4-2
Device configuration	Charge/discharge capacitance : 200 pF ± 10% Discharge resistance : 400 Ω ± 10%	Charge/discharge capacitance : 150 pF Discharge resistance : 330 Ω
Judgment contents	5 repetitions No spark or smoke emitted : ± 25 kV No element destruction : ± 20 kV No malfunction : ± 8 kV	10 repetitions No malfunction Contact : ± 8 kV Suspended : ± 15 kV

●Electrical characteristic curves (Ta=25°C)

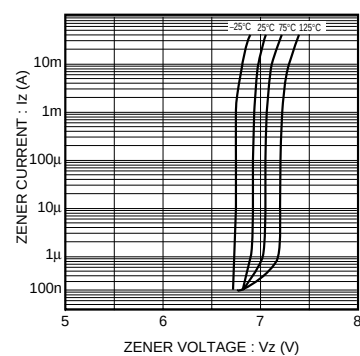


Fig.1 Zener voltage characteristic

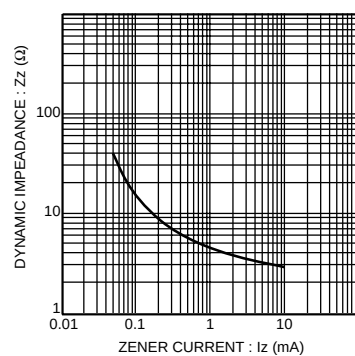


Fig.2 Operating resistance
Zener current characteristic

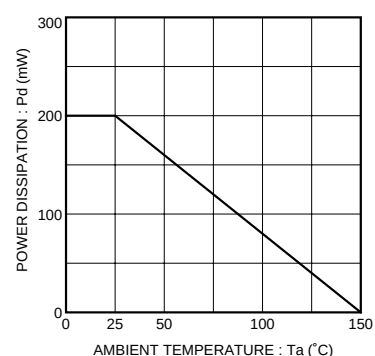


Fig.3 Derating curve