

Zener diode

UMZ6.8EN

●Applications

Constant voltage control

For the ESD measure of a signal line

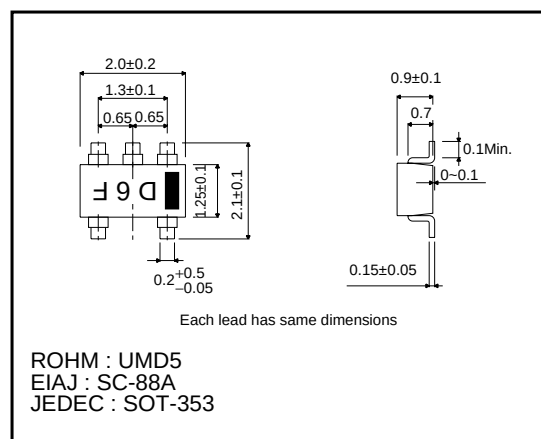
●Features

- 1) Small surface mounting type. (UMD5)
- 2) Composite type with four athode common elements
- 3) High reliability

●Construction

Silicon epitaxial planar

●External dimensions (Units : mm)

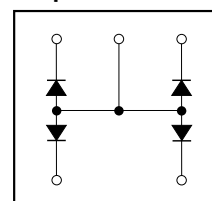


●Absolute maximum ratings (Ta=25°C)

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

* Total of 4 elements

●Equivalent circuit



●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	—	—	0.5	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

Parameter	IEC61000-4-2
Device configuration	•Charge / discharge capacitance : 150pF •Discharge resistance : 330Ω
Judgment contents	•10 repetitions •No malfunction •Contact : ±8kV •Suspended : ±15kV

Diodes

●Electrical characteristic curves (Ta=25°C)

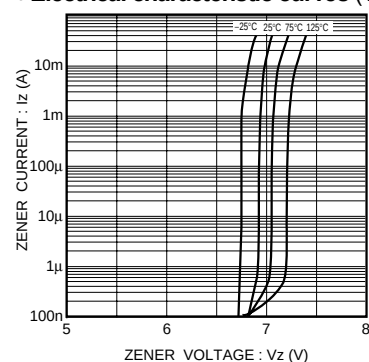


Fig.1 Zener voltage characteristic

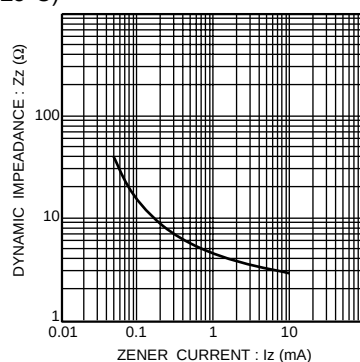


Fig.2 Operating resistance
Zener current characteristic

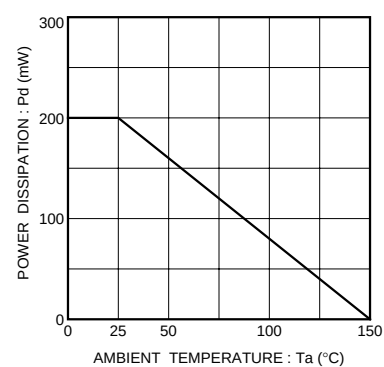


Fig.3 Derating curve