Zener Diode

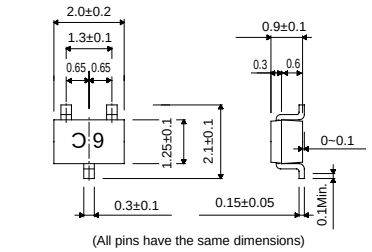
UMZ6.8N

●**Applications**
Constant voltage control
For the ESD measure of a signal line

●**Features**
1) Small surface mounting type (UMD3)
2) Composite type with two cathode common elements
3) High reliability

●**Construction**
Silicon epitaxial planar

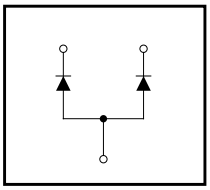
●**External dimensions** (Units: mm)



(All pins have the same dimensions)

ROHM : UMD3
EIAJ : SC-70
JEDEC : SOT-323

●**Circuit**



●**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 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	–	–	0.5	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	Standard1	IEC1000-4-2
Device configuration	Charge/discharge capacitance : 200pF±10% Discharge resistance : 400Ω ±10%	Charge/discharge capacitance : 150pF Discharge resistance : 330Ω
Judgment contents	5 repetitions No spark or smoke emitted : ±25kV No element destruction : ±20kV No malfunction : ± 8kV	10 repetitions No malfunction Contact : ± 8kV Suspended : ±15kV

●**Electrical characteristic curves** (Ta=25°C)

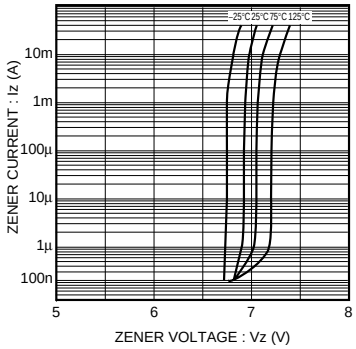


Fig.1 Zener voltage characteristic

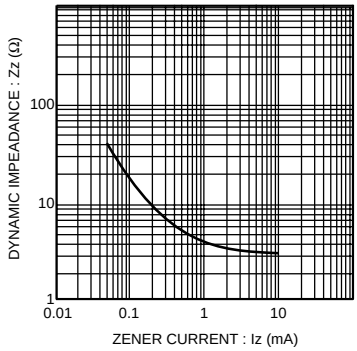


Fig.2 Operating resistance
Zener current characteristic

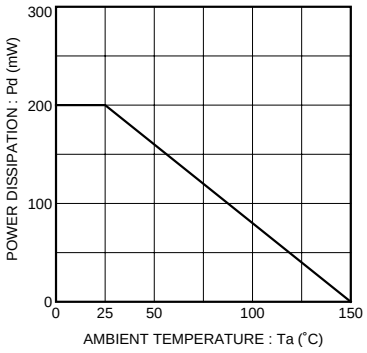


Fig.3 Derating curve