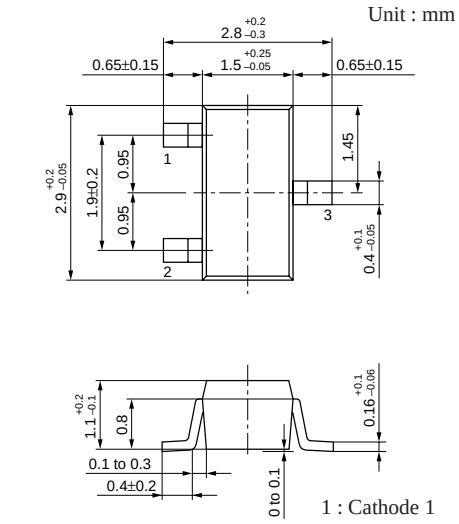
MAZC062D

Silicon planer type

Constant voltage, constant current, waveform cripper and surge absorption circuit



■ Features

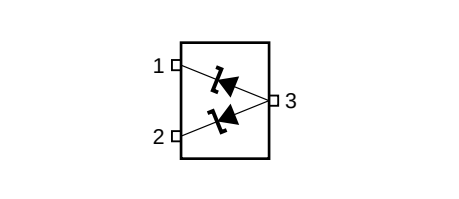
- Mini type package (3-pin)
- Low joint capacity zener diode (V_Z= 6.2V)
- Two anode-common element wiring

■ Absolute Maximum Ratings (Ta= 25˚C)

Parameter	Symbol	Rating	Unit
Instanious forward current	I_{FRM}	200	mA
Total power dissipation	P_{tot}*	200	mW
Junction temperature	T_j	150	˚C
Storage temperature	T_{stg}	– 55 to + 150	˚C

* With a printed-circuit board

■ Internal Connection



■ Electrical Characteristics (Ta= 25˚C)*1

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	V_F	I_F=10mA		0.9	1.0	V
Zener voltage	V_Z*2	I_Z= 5mA	5.9		6.5	V
Operating resistance	R_{ZK}	I_Z= 0.5mA			100	Ω
	R_Z	I_Z= 5mA			30	Ω
Reverse current	I_R	V_R= 5.5V			3	µA
Terminal capacitance	C_t	V_R= 0V, f=1MHz		8		pF

Note 1. Rated input/output frequency : 5MHz
2. Test method : Depend on JIS C7031 testing
3. Electrostatic discharge is ±15kV
Test method : IEC-801(C=150pF, R=330Ω, Contact discharge : 10 times)
Test unit : ESS-200AX
4. * 1 : The V_Z value is for the temperature of 25˚C. In other cases, carry out the temperature compensation.
* 2 : Guaranteeed at 20ms after power application

■ Marking