This product complies with the RoHS Directive (EU 2002/95/EC).

MAZAxxx Series

Silicon planar type

For constant voltage, constant current, waveform clipper and surge absorption circuit

■ Features

- Low noise type

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I_{FRM}	200	mA
Total power dissipation *	P_T	100	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	–55 to +125	°C

Note) *: P_T = 100 mW achieved with a printed circuit board.

■ Package

- Code
  ML2-N1
- Pin Name
  1: Anode
  2: Cathode

■ Marking Symbol:

Refer to the list of the electrical characteristics within part numbers

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions		Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 10 mA			0.9	1.0	V
Zener voltage *1	V_Z	I_Z	Specified value				V
Zener rise operating resistance	R_{ZK}	I_Z	Specified value	Refer to the list of the electrical characteristics within part numbers			Ω
Zener operating resistance	R_Z	I_Z	Specified value				Ω
Reverse current	I_R	V_R	Specified value				μA
Temparature coefficient of zener voltage *2	S_Z	I_Z	Specified value				mV/°C

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. Absolute frequency of input and output is 5 MHz
3. The temperature must be controlled 25°C for V_Z mesurement.
V_Z value measured at other temperature must be adjusted to V_Z (25°C)
4. ∗1: V_Z guaranted 20 ms after current flow.
∗2: T_j = 25°C to 125°C

■ Electrical Characteristics within Part Numbers $T_a = 25°C \pm 3°C$

Part number	Zener voltage V_Z (V)				Reverse current I_R (μA)		Zener rise operating resistance R_{ZK} (Ω)		Zener operating resistance R_Z (Ω)		Temparature coefficient of zener voltage S_Z (mV/°C)		Marking symbol
	Min	Typ	Max	I_Z (mA)	Max	V_R (V)	Max	I_Z (mA)	Max	I_Z (mA)	typ	I_Z (mA)	
MAZA051	4.80	5.10	5.40	5	1.0	2.0	500	1.0	60	5	– 0.8	5	BF
MAZA056	5.30	5.60	6.00	5	0.5	2.5	200	0.5	40	5	1.2	5	CF
MAZA068	6.40	6.80	7.20	5	0.1	4.0	60	0.5	20	5	3.0	5	WF
MAZA082	7.70	8.20	8.70	5	0.1	5.0	60	0.5	20	5	4.6	5	EF

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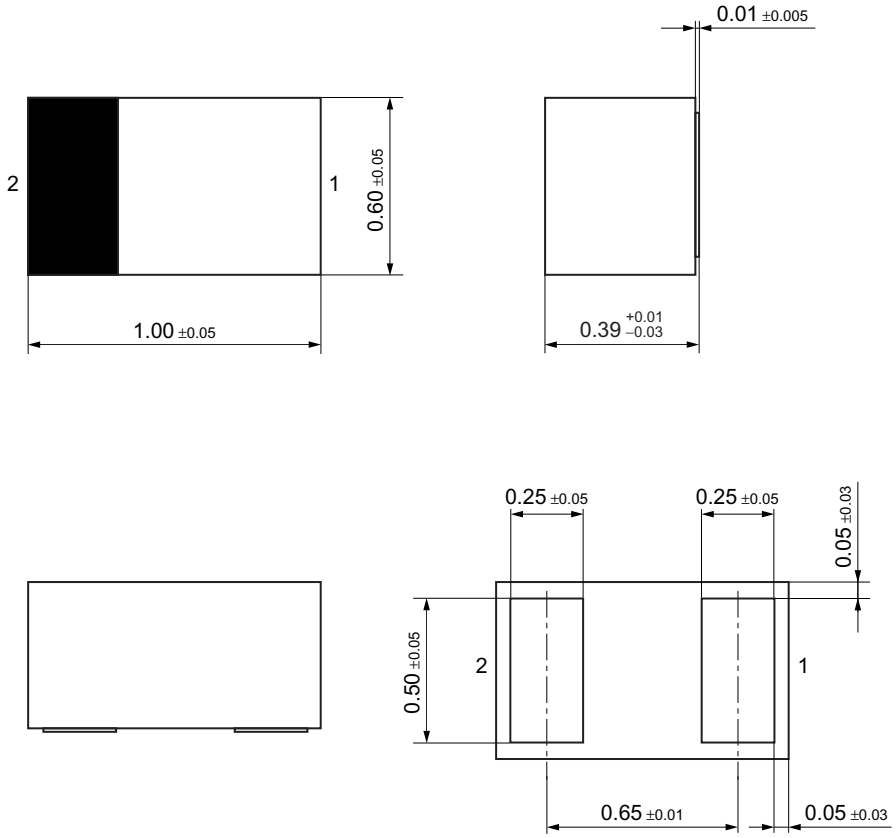
ML2-N1

Unit: mm



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