# **Panasonic**

# MAZF000 Series

## Silicon planer type

Surge absorption circuit

### ■ Features

- S-Mini type package (2-pin)
- No rank classification ( $V_Z$ = 3.3 to 12V)

### ■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Average forward current	I <sub>F(AV)</sub>	100	mA
Instanious forward current	I <sub>FRM</sub>	200	mA
Total power dissipation	P <sub>tot</sub> *	150	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	- 55 to +150	°C

<sup>\*</sup> With a printed-circuit board

# Cathode Anode Cathode Anode Cathode S-Mini Type Package (2-pin)

# ■ Common Electrical Characteristics (Ta= 25°C)\*1

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	$V_{\rm F}$	I <sub>F</sub> = 15mA	14. 00.	0.9	1.0	V
Zener voltage	V <sub>Z</sub> * <sup>2</sup>	I <sub>Z</sub> Specified value				V
Operating resistance	R <sub>Z</sub> I <sub>Z</sub> Specified value Refer to the electrical characteristics			Ω		
Reverse current	$I_R$	V <sub>R</sub> Specified value	Specified value list of P483		μΑ	
Terminal capacitance	$C_{t}$	V <sub>R</sub> Specified value				pF

Note 1. Test method: Depend on JIS C7031 testing

<sup>2.</sup> Rated input/output frequency: 5MHz

<sup>3. \*</sup>  $^{1}$ : The  $V_{Z}$  value is for the temperature of 25°C. In other cases, carry out the temperature compensation.

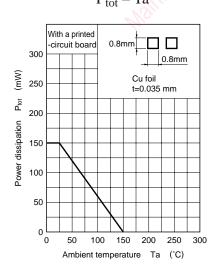
st 2 : Guaranteeed at 20ms after power application

Zener Diodes MAZF000 Series

### ■ Electrical Characteristics (Ta= 25°C)

		Zener voltage			Reverse current		Operating resistance		Terminal capaci- tance	Marking
Part Number		$V_Z$			$I_R$		R <sub>Z</sub>		C <sub>t</sub> (pF)	
1 4110 1 (411110 01	min	nom	max	$I_{Z}$	max	V <sub>R</sub>	max	IZ	$(V_R = 0V)$ f=1MHz	1,
	(V)	(V)	(V)	(mA)	(µA)	(V)	(Ω)	(mA)	typ	
MAZF033	3.10	3.30	3.50	5	20	1.0	130	5	325	B1
MAZF036	3.40	3.60	3.80	5	10	1.0	130	5	300	B2
MAZF039	3.70	3.90	4.10	5	10	1.0	130	5	300	В3
MAZF043	4.00	4.30	4.60	5	10	1.0	130	5	275	C1
MAZF047	4.40	4.70	5.00	5	2.0	1.0	80	5	130	C2
MAZF051	4.80	5.10	5.40	5	1.0	2.0	60	5	110	D1
MAZF056	5.30	5.60	6.00	5	0.5	2.5	40	5	95	D2
MAZF062	5.80	6.20	6.60	5	0.2	4.0	30	5	90	E1
MAZF068	6.40	6.80	7.20	5	0.1	4.0	20	5	85	E2
MAZF075	7.00	7.50	7.90	5	0.1	5.0	20	5	80	F
MAZF082	7.70	8.20	8.70	5	0.1	5.0	20	5	75	G
MAZF091	8.50	9.10	9.60	5	0.1	6.0	20	5	70	Н
MAZF100	9.40	10.00	10.60	5	0.05	7.0	30	5	70	10
MAZF110	10.40	11.00	11.60	5	0.05	8.0	30	5	65	11
MAZF120	11.40	12.00	12.70	5	0.05	9.0	30	5	65	12





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