

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 ($T_a= 25^\circ C$)

Parameter	Symbol	Rating	Unit
Average forward current	$I_{F(AV)}$	100	mA
Instantaneous forward current	I_{FRM}	200	mA
Total power dissipation	P_{tot}^*	150	mW
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	- 55 to +150	$^\circ C$

* With a printed-circuit board

■ Common Electrical Characteristics ($T_a= 25^\circ C$)*¹

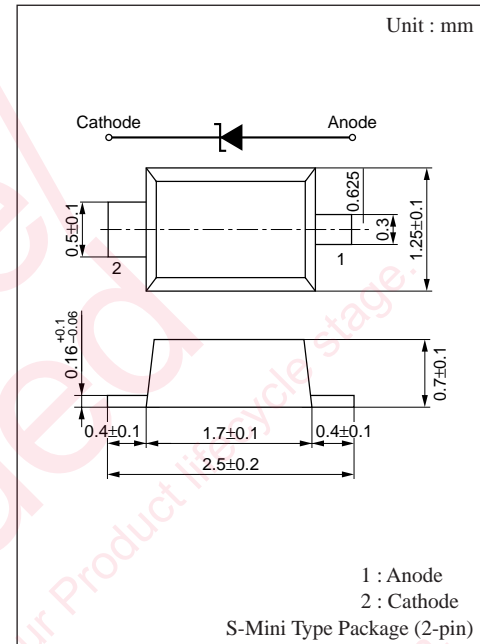
Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	V_F	$I_F= 15mA$		0.9	1.0	V
Zener voltage	V_Z^{*2}	I_Z Specified value				V
Operating resistance	R_Z	I_Z Specified value	Refer to the electrical characteristics			Ω
Reverse current	I_R	V_R Specified value	list of P483			μA
Terminal capacitance	C_t	V_R Specified value				pF

Note 1. Test method : Depend on JIS C7031 testing

2. Rated input/output frequency : 5MHz

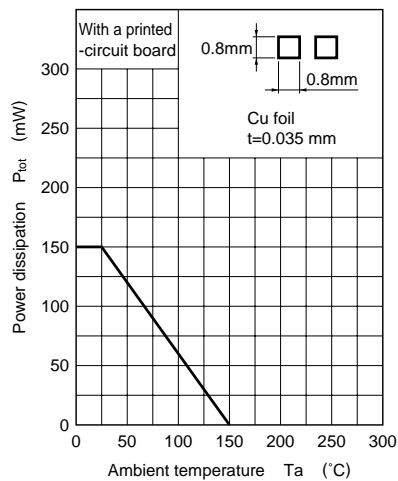
3. *¹ : The V_Z value is for the temperature of $25^\circ C$. In other cases, carry out the temperature compensation.

*² : Guaranteed at 20ms after power application



■ Electrical Characteristics (Ta= 25°C)

Part Number	Zener voltage				Reverse current		Operating resistance		Terminal capacitance	Marking
	V _Z				I _R		R _Z		C _t (pF) (V _R = 0V) f=1MHz typ	
	min (V)	nom (V)	max (V)	I _Z (mA)	max (μA)	V _R (V)	max (Ω)	I _Z (mA)		
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	B3
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	H
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

P_{tot} - Ta

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