

MAZG000 Series

Silicon planer type

Surge absorption circuit

■ Features

- DO-34 package
- No rank classification ($V_Z=3.3$ to $12V$)

■ Absolute Maximum Ratings ($T_a=25^\circ C$)

Parameter	Symbol	Rating	Unit
Average forward current	$I_{F(AV)}$	250	mA
Instantaneous forward current	I_{FRM}	250	mA
Total power dissipation	P_{tot}^*	370	mW
Junction temperature	T_j	200	$^\circ C$
Storage temperature	T_{stg}	- 65 to + 200	$^\circ C$

* With a printed-circuit board

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

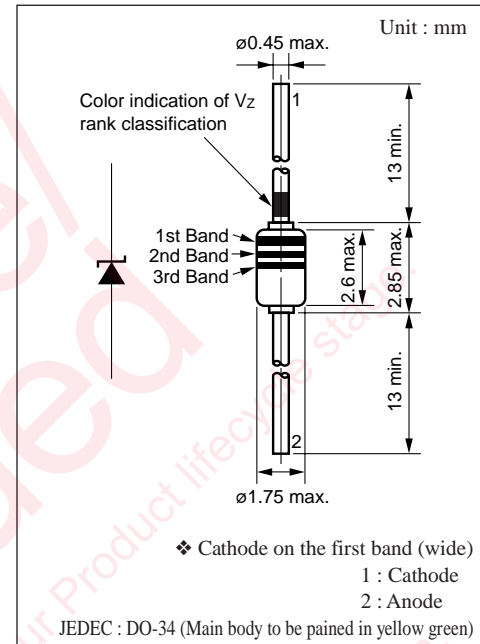
Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	V_F	$I_F=10mA$		0.8	0.9	V
Zener voltage	V_Z^{*2}	I_Z Specified value				V
Operating resistance	R_Z	I_Z Specified value	Refer to the electrical characteristics			Ω
Reverse current	I_R	V_R Specified value	list of P485			μA
Terminal capacitance	C_t	V_R Specified value				pF

Note 1. Test method : Depend on JIS C7031 testing

2. Rated input/output frequency : 40MHz

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

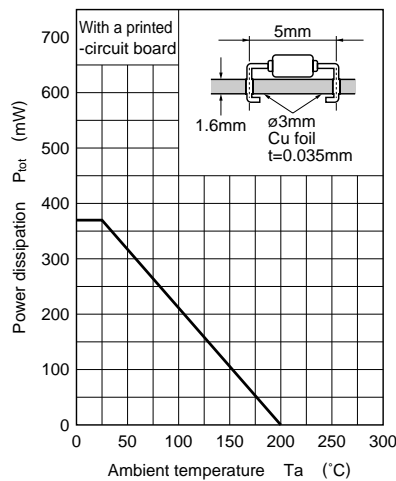
*² : Guaranteed at 20ms after power application



■ Electrical Characteristics (Ta= 25°C)

Part Number	Zener voltage				Reverse current		Operating resistance		Terminal capacitance C _t (pF) (V _R = 0V) f=1MHz typ	Marking (Color indication)		
	V _Z				I _R		R _Z			1st.	2nd.	3rd.
	min (V)	nom (V)	max (V)	I _Z (mA)	max (μA)	V _R (V)	max (Ω)	I _Z (mA)				
MAZG033	3.10	3.30	3.50	5	20	1.0	130	5	325	Orange	Orange	Orange
MAZG036	3.40	3.60	3.80	5	10	1.0	130	5	300	Orange	Blue	Blue
MAZG039	3.70	3.90	4.10	5	10	1.0	130	5	300	Orange	White	White
MAZG043	4.00	4.30	4.60	5	10	1.0	130	5	275	Yellow	Orange	Orange
MAZG047	4.40	4.70	5.00	5	3.0	1.0	80	5	130	Yellow	Purple	Purple
MAZG051	4.80	5.10	5.40	5	2.0	2.0	60	5	110	Green	Brown	Brown
MAZG056	5.30	5.60	6.00	5	1.0	2.0	40	5	95	Green	Blue	Blue
MAZG062	5.80	6.20	6.60	5	3.0	4.0	20	5	90	Blue	Red	Red
MAZG068	6.40	6.80	7.20	5	2.0	4.0	15	5	85	Blue	Gray	Gray
MAZG075	7.00	7.50	7.90	5	1.0	5.0	15	5	80	Purple	Green	Green
MAZG082	7.70	8.20	8.70	5	0.5	5.0	15	5	75	Gray	Red	Red
MAZG091	8.50	9.10	9.60	5	0.2	6.0	20	5	70	White	Brown	Brown
MAZG100	9.40	10.00	10.60	5	0.2	7.0	30	5	70	Brown	Black	—
MAZG110	10.40	11.00	11.60	5	0.1	7.0	30	5	65	Brown	Brown	—
MAZG120	11.40	12.00	12.70	5	0.1	8.0	30	5	65	Brown	Red	—

P_{tot} - Ta



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