Zener Diodes Panasonic

MAZU000 series (MA5Z000 Series)

Silicon planar type

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

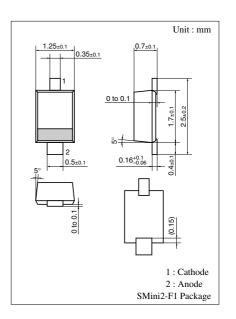
■ Features

- S-mini type 2-pin package
- High breakdown voltage zener diode

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Instanious forward current	I_{FRM}	200	mA
Total power dissipation*	P _{tot}	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) * : With a printed-circuit board



■ Common Electrical Characteristics $T_a = 25^{\circ}C^{*1}$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F}	$I_F = 10 \text{ mA}$			1.2	V
Zener voltage*2	V_{Z}	I _Z Specified value —	Refer to the	 e	V	
Reverse current	I_R	** 0 10 1 1		characteristics		μΑ
Temperature coefficient of zener voltage	S _Z	I _Z Specified value	within part numbers			mW/°C

Note) 1. Test method according to the JIS C7031 testing

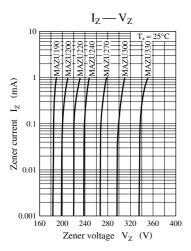
- 2. Rated input/output frequency: 5 MHz
- 2. *1: The V_Z value is for the temperature of 25°C. In other cases, carry out the temperature compensation.
 - *2 : Guaranteed at 20 ms after power application.

Note) The part number in the parenthesis shows conventional part number.

Zener Diodes MAZU000 Series

\blacksquare Electrical characteristics within part numbers $\,T_a = 25^{\circ}C$

	Zener voltage			Reverse current		Temperature coefficient of zener voltage			
Part Number		$V_{Z}(V)$			I_R		S _Z		Marking Symbol
	Min (V)	Nom (V)	Max (V)	I _Z (mA)	Max (μA)	V _R (V)	Typ (V/°C)	I _Z (mA)	
MAZU190	180	190	200	0.1	1	160	0.22	0.1	AZ
MAZU200	190		210		1	160	0.31	0.1	AA or AB
MAZU200-L		200		0.1					AA
MAZU200-H									AB
MAZU220	210	220	240	0.1	1	176	0.31	0.1	AC or AD
MAZU220-L	210	220	230						AC
MAZU220-H	220	230	240						AD
MAZU240	230	240	270						AE or AF or AH
MAZU240-L	230	240	250	0.1	1	192	0.31	0.1	AE
MAZU240-M	240	250	260	0.1					AF
MAZU240-H	250	260	270						AH
MAZU270	260	270	300	0.1	1	216	0.31	0.1	AI or AK or AL
MAZU270-L	200		280						AI
MAZU270-M	270	280	290	0.1	1	210	0.51		AK
MAZU270-H	280	290	300						AL
MAZU300	290	300	300 330				AMor AN or AO		
MAZU300-L	290	300	310	0.1	1	240	0.31	0.1	AM
MAZU300-M	300	310	320						AN
MAZU300-H	310	320	330						AO
MAZU330	320	330	360	0.1	1	264	0.31	0.1	APor AR or AS
MAZU330-L	320	330	340						AP
MAZU330-M	330	340	350		1				AR
MAZU330-H	340	350	360						AS



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