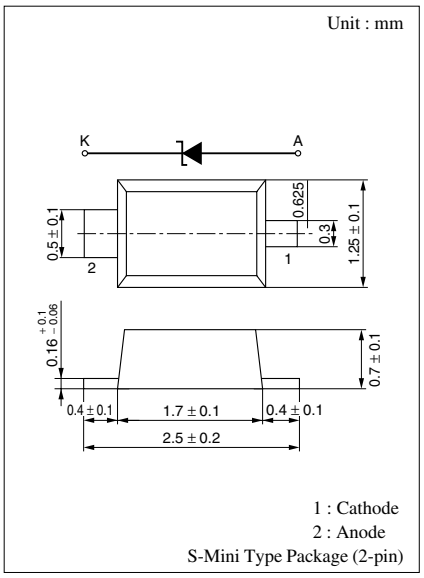
MAZU000 Series

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 $T_a = 25°C^{*1}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 10 mA			1.2	V
Zener voltage*2	V_Z	I_Z ..... Specified value	Refer to the list of the electrical characteristics within part numbers			V
Reverse current	I_R	V_R ..... Specified value				μA
Temperature coefficient of zener voltage	S_Z	I_Z ..... Specified value				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.

■ Electrical characteristics within part numbers $T_a = 25°C$

Part Number	Zener voltage				Reverse current		Temperature coefficient of zener voltage		Marking Symbol
	V_Z (V)				I_R		S_Z		
	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	200	210	0.1	1	160	0.31	0.1	AA or AB
MAZU200-L									AA
MAZU200-H									AB
MAZU220	210	220	240	0.1	1	176	0.31	0.1	AC or AD
MAZU220-L			230						AC
MAZU220-H	220	230	240						AD
MAZU240	230	240	270	0.1	1	192	0.31	0.1	AE or AF or AH
MAZU240-L			250						AE
MAZU240-M	240	250	260						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			280						AI
MAZU270-M	270	280	290						AK
MAZU270-H	280	290	300						AL
MAZU300	290	300	330	0.1	1	240	0.31	0.1	AMor AN or AO
MAZU300-L			310						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			340						AP
MAZU330-M	330	340	350						AR
MAZU330-H	340	350	360						AS

