

MAZDxxx Series

Silicon planar type

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

■ Features

- Low noise type

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I_{FRM}	200	mA
Total power dissipation *	P_T	120	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *: $P_T = 100$ mW achieved with a printed circuit board.

■ Package

- Code
SSSMini2-F2
- Pin Name
1: Anode
2: Cathode

■ Marking Symbol:

Refer to the list of the electrical characteristics within part numbers

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

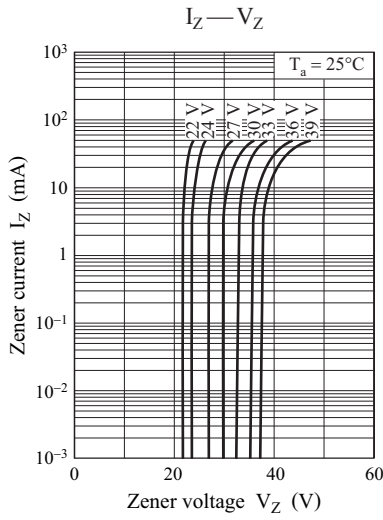
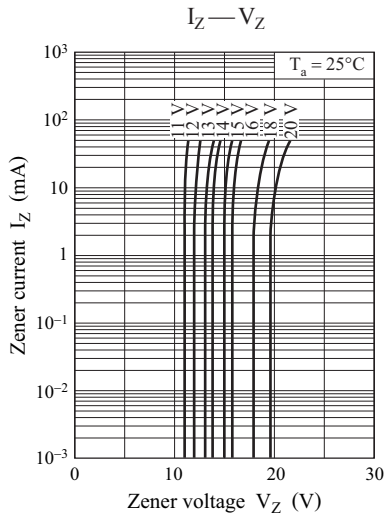
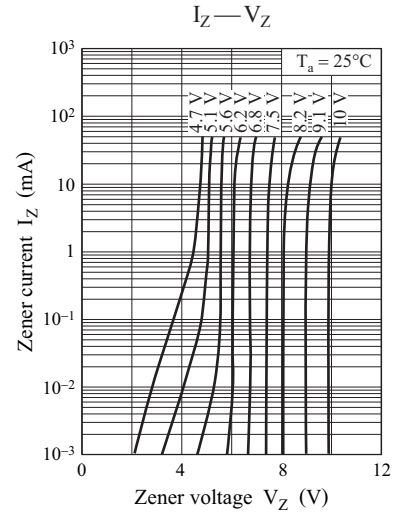
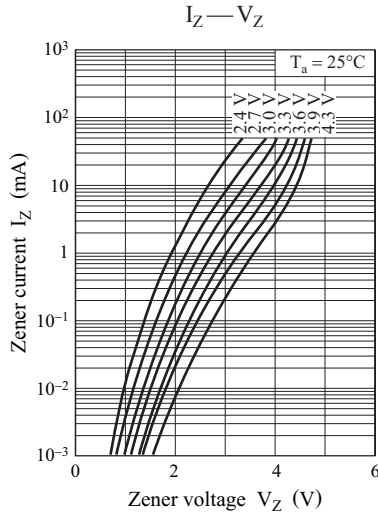
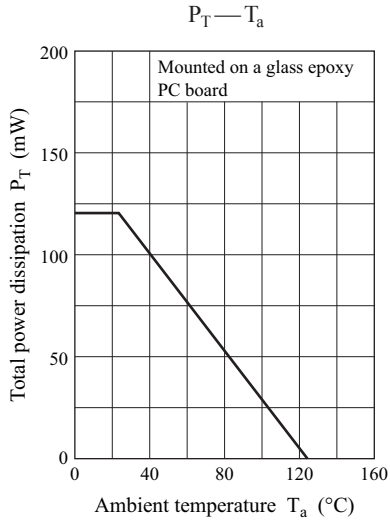
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 10$ mA		0.9	1.0	V
Zener voltage *	V_Z	I_Z Specified value	Refer to the list of the electrical characteristics within part numbers			V
Zener operating resistance	R_Z	I_Z Specified value				Ω
Reverse current	I_R	V_R Specified value				μA

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 5 MHz
3. The temperature must be controlled 25 $^\circ\text{C}$ for V_Z measurement.
 V_Z value measured at other temperature must be adjusted to V_Z (25 $^\circ\text{C}$)
4. *: V_Z guaranteed 20 ms after current flow.

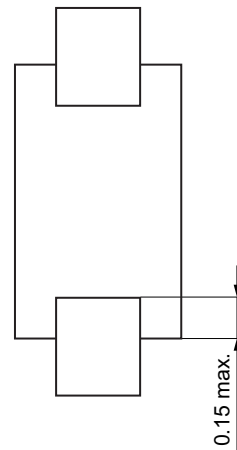
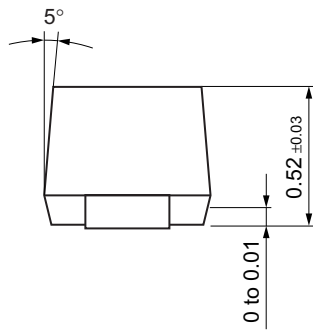
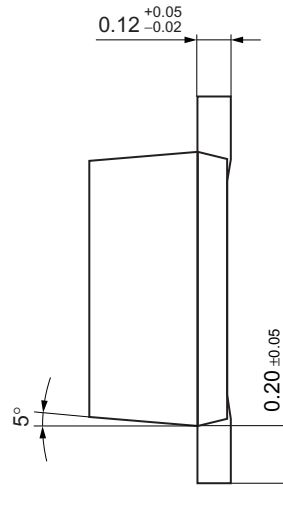
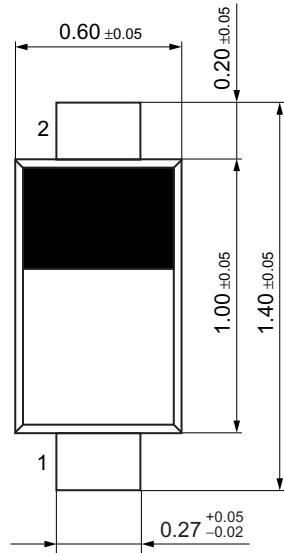
■ Electrical Characteristics within Part Numbers $T_a = 25^{\circ}\text{C} \pm 3^{\circ}\text{C}$

Part number	Zener voltage V_Z (V)				Zener operating resistance R_Z (Ω)		Reverse current I_R (μA)		Marking symbol
	Min	Typ	Max	I_Z (mA)	Max	I_Z (mA)	Max	V_R (V)	
MAZD051	4.80	5.10	5.40	5	60	5	1.0	2.0	BF
MAZD056	5.30	5.60	6.00	5	40	5	0.5	2.5	CF
MAZD062	5.80	6.20	6.60	5	30	5	0.2	4.0	DF
MAZD068	6.40	6.80	7.20	5	20	5	0.1	4.0	W
MAZD075	7.00	7.50	7.90	5	20	5	0.1	5.0	T
MAZD082	7.70	8.20	8.70	5	20	5	0.1	5.0	EF
MAZD091	8.50	9.10	9.60	5	20	5	0.1	6.0	FF
MAZD100	9.40	10.0	10.60	5	30	5	0.05	7.0	GF
MAZD110	10.40	11.0	11.60	5	30	5	0.05	8.0	JF
MAZD120	11.40	12.0	12.70	5	30	5	0.05	9.0	KF
MAZD160	15.30	16.0	17.10	5	50	5	0.05	12.0	NF
MAZD180	16.90	18.0	19.10	5	60	5	0.05	13.0	PF
MAZD200	18.80	20.0	21.20	5	80	5	0.05	15.0	RF
MAZD220	20.80	22.0	23.30	5	80	5	0.05	17.0	SF
MAZD240	22.80	24.0	25.60	5	100	5	0.05	19.0	UF
MAZD270	25.10	27.0	28.90	2	120	2	0.05	21.0	VF
MAZD300	28.00	30.0	32.00	2	160	2	0.05	23.0	XF
MAZD360	34.00	36.0	38.00	2	250	2	0.05	27.0	ZF



SSSMini2-F2

Unit: mm



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