

MAZQxxx Series

Silicon planar type

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

■ Features

- Optimum for high-density mounting
- 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) *: $P_T = 120$ mW achieved with a printed circuit board.

■ Package

- Code
USSMini2-F1
- 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 current	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

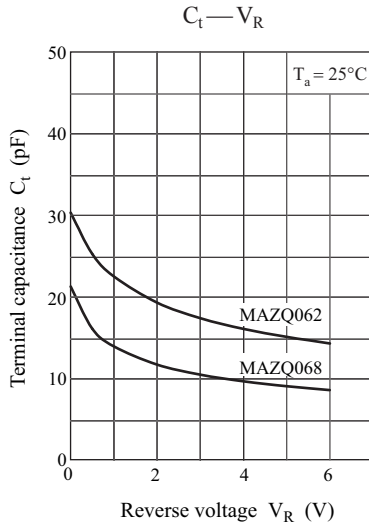
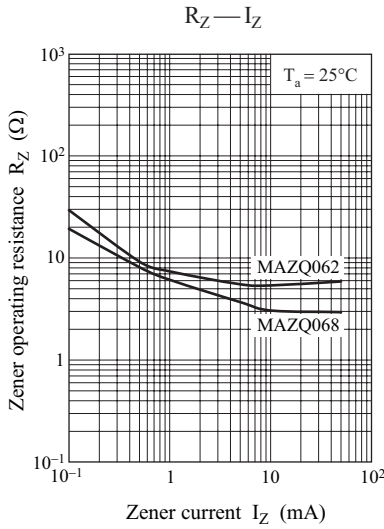
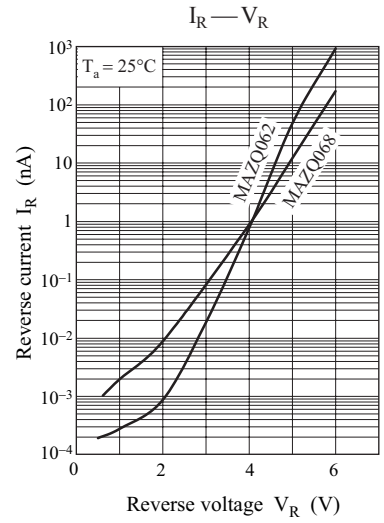
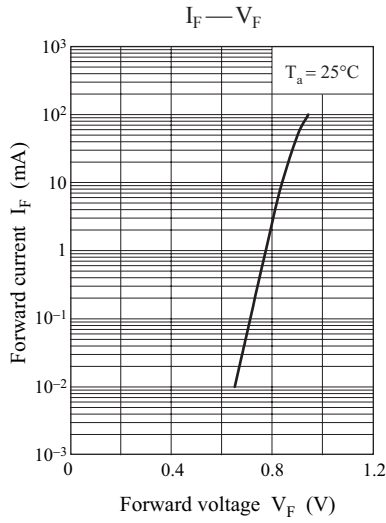
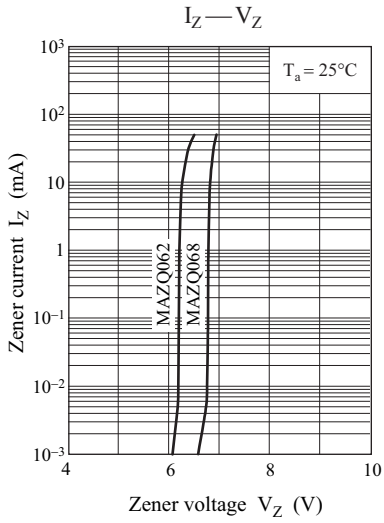
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 5 MHz.
3. The temperature must be controlled 25°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.

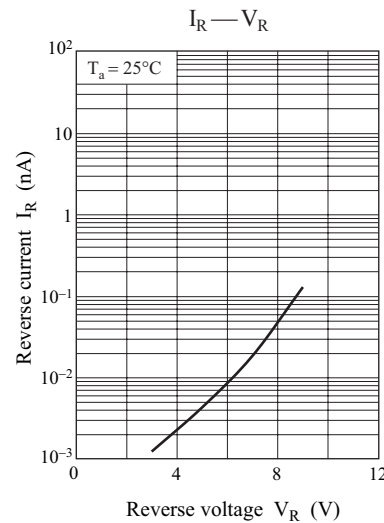
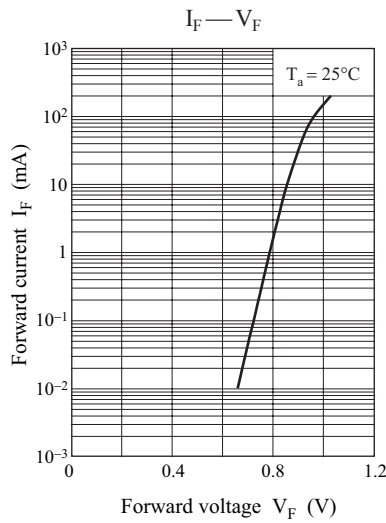
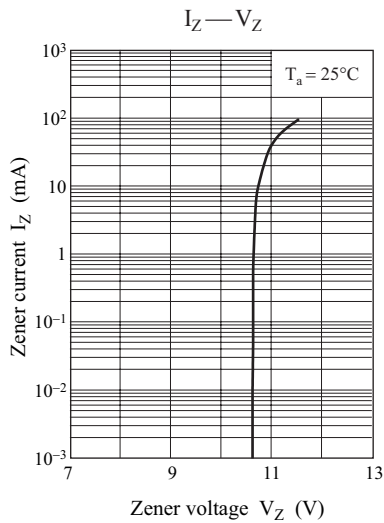
■ Electrical Characteristics within Part Numbers $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

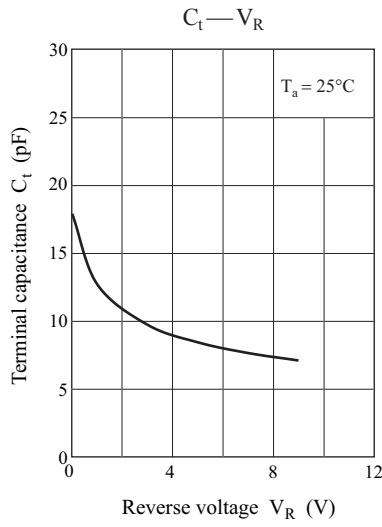
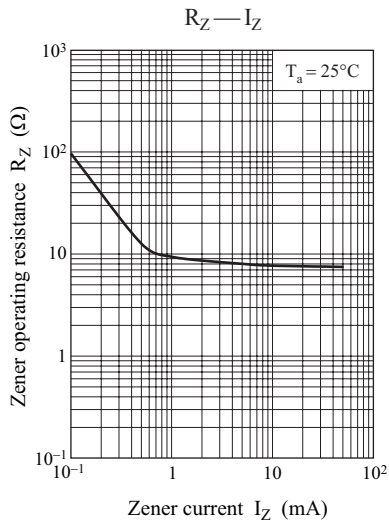
Part number	Zener voltage V_Z (V)				Zener operating resistance R_Z (Ω)		Reverse current I_R (μA)		Marking symbol
	Min	Typ	Max	I_Z (mA)	Max	I_Z (mA)	Max	V_R (V)	
MAZQ062	5.8	6.2	6.6	5	30	5	0.2	4.0	E
MAZQ068	6.4	6.8	7.2	5	20	5	0.1	4.0	F
MAZQ100	9.40	10.00	10.60	5	30	5	0.05	7	L
MAZQ200	18.80	20.00	21.20	5	80	5	0.05	15.0	V
MAZQ300	28.00	30.00	32.00	2	160	2	0.05	23.0	Y

Characteristics charts of MAZQ062, MAZQ068

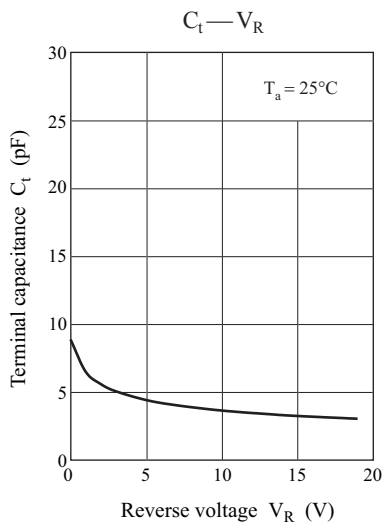
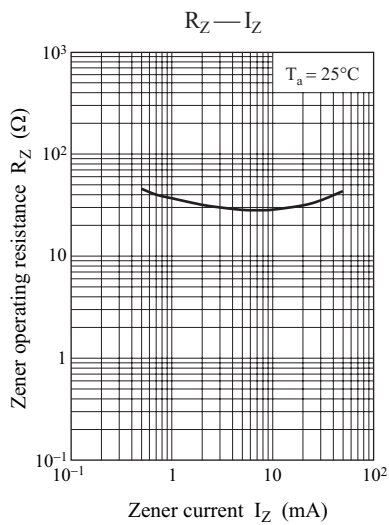
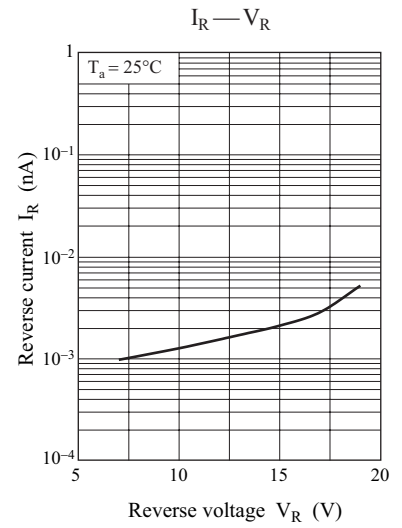
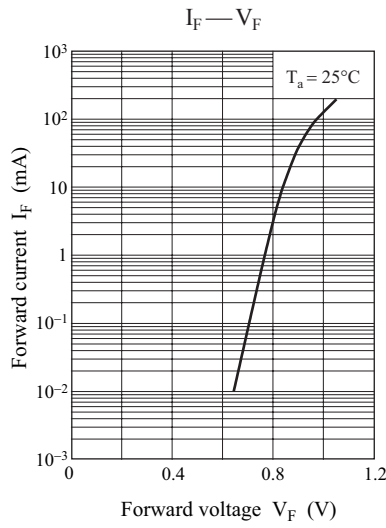
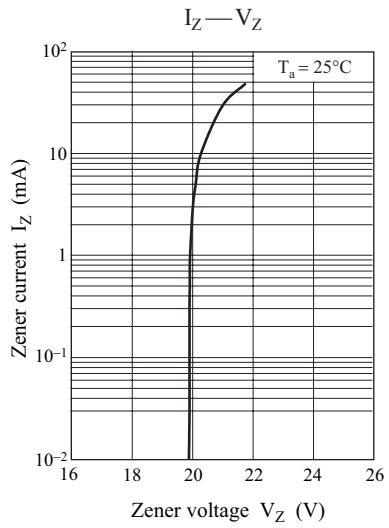


Characteristics charts of MAZQ100

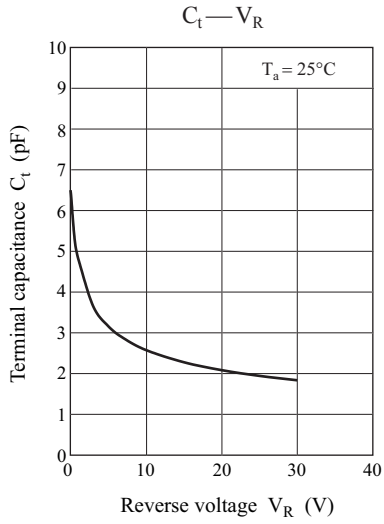
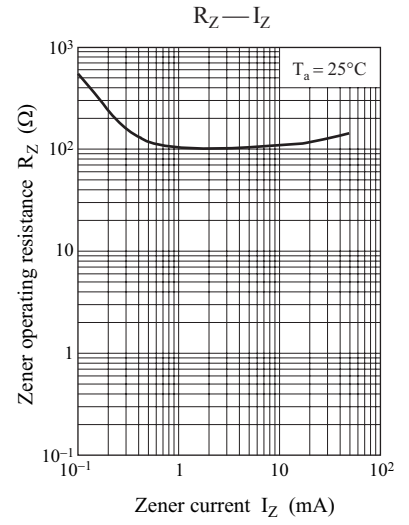
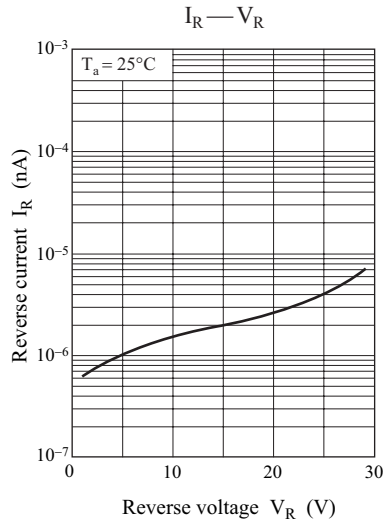
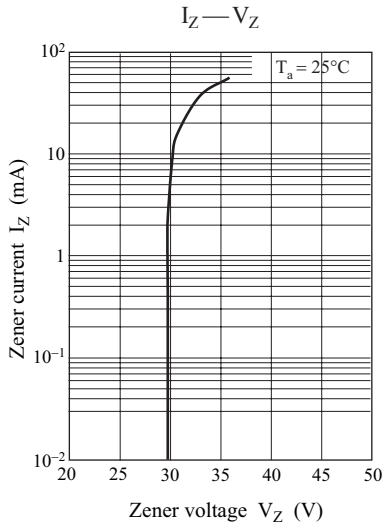




Characteristics charts of MAZQ200

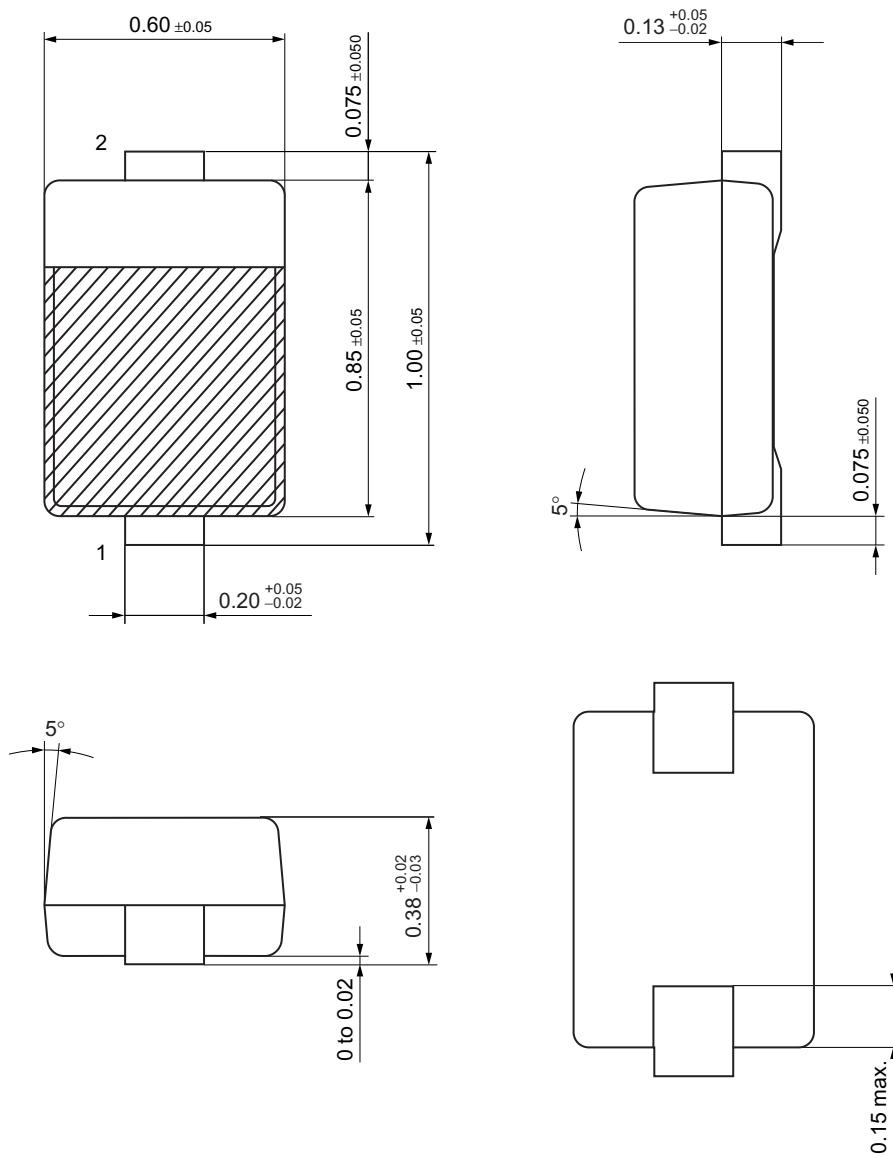


Characteristics charts of MAZQ300



USSMini2-F1

Unit: mm



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