

# MA4Z082WA

## Silicon planer type

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

### ■ Features

- SS-Mini type package (3-pin)
- Anode-common wiring of MA8082

### ■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Average forward current	$I_{F(AV)}^{*1}$	100	mA
Instantaneous forward current	$I_{FRM}^{*1}$	200	mA
Total power dissipation	$P_{tot}^{*2}$	150	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	- 55 to + 150	°C

\*1 Working value in a single piece

\*2 With a printed-circuit board

### ■ Electrical Characteristics (Ta= 25°C)\*1

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	$V_F$	$I_F=10mA$		0.9	1.0	V
Zener voltage	$V_Z^{*2}$	$I_Z= 5mA$	7.70		8.70	V
Operating resistance	$R_{ZK}$	$I_Z= 0.5mA$			120	$\Omega$
	$R_Z$	$I_Z= 5mA$			20	$\Omega$
Reverse current	$I_R$	$V_R= 5V$			0.1	$\mu A$
Temperature coefficient of zener voltage	$S_Z^{*3}$	$I_Z= 5mA$		4.6		mV/°C

Note 1. Test method : Depend on JIS C7031 testing

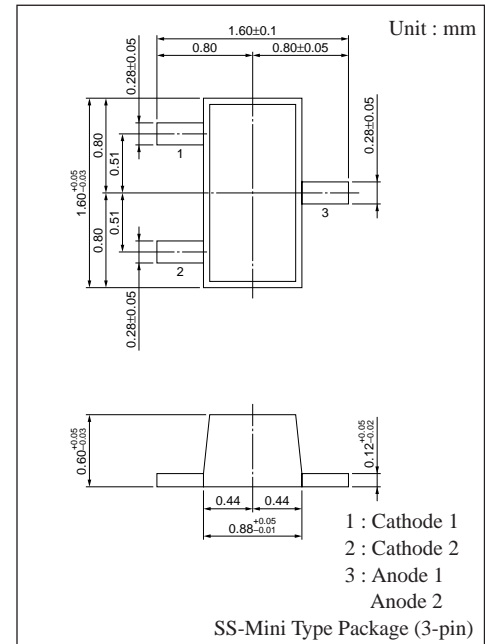
2. Rated input/output frequency : 5MHz

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

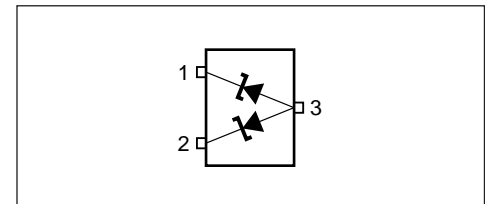
\*2 : Guaranteed at 20ms after power application

\*3 :  $T_j= 25$  to 150°C

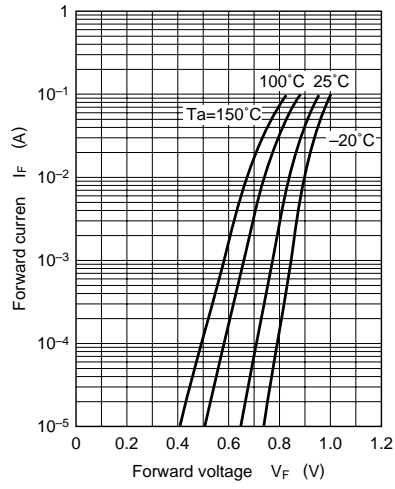
### ■ Marking



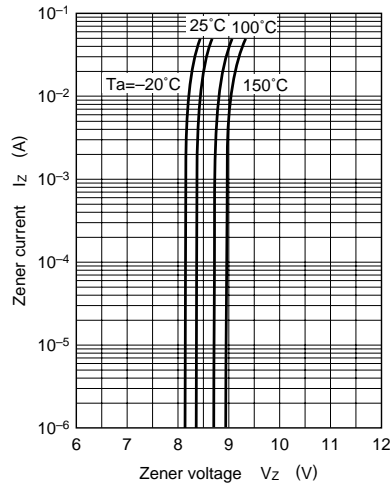
### ■ Internal Connection



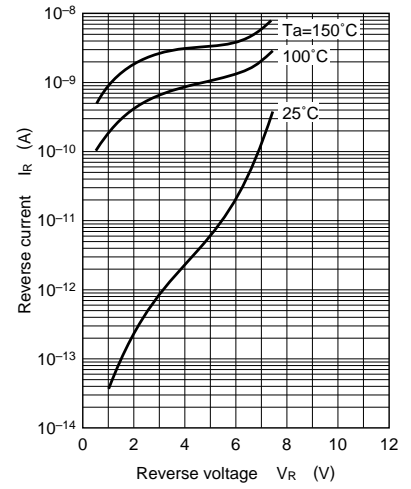
$I_F - V_F$



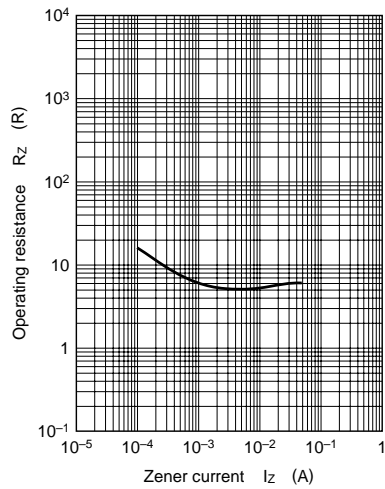
$I_Z - V_Z$



$I_R - V_R$



$R_Z - I_Z$



$C_t - V_R$

