

# MA3082WA

Silicon planer type

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

## ■ Features

- Mini type package (3-pin)
- Two anode-common wiring of MA3082

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

Parameter	Symbol	Rating	Unit
Average forward current	I <sub>F(AV)</sub>	100* <sup>1</sup>	mA
Instantaneous forward current	I <sub>FRM</sub>	200* <sup>1</sup>	mA
Total power dissipation	P <sub>tot</sub> * <sup>2</sup>	100* <sup>1</sup>	mW
Non-repetitive reverse surge power dissipation	P <sub>ZSM</sub> * <sup>3</sup>	15	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

\*<sup>1</sup> Working value in a single piece

\*<sup>2</sup> With a printed-circuit board

\*<sup>3</sup> t=100μ s, T<sub>j</sub>=150°C

## ■ Electrical Characteristics (Ta= 25°C)\*<sup>1</sup>

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA		0.8	0.9	V
Zener voltage	V <sub>Z</sub> * <sup>2</sup>	I <sub>Z</sub> = 5mA	7.70		8.70	V
Operating resistance	R <sub>ZK</sub>	I <sub>Z</sub> = 0.5mA			120	Ω
	R <sub>Z</sub>	I <sub>Z</sub> = 5mA			15	Ω
Reverse current	I <sub>R1</sub>	V <sub>R</sub> = 5V			0.5	μA
	I <sub>R2</sub>	V <sub>R</sub> = 7.2V			60	μA
Temperature coefficient of zener voltage	S <sub>Z</sub> * <sup>3</sup>	I <sub>Z</sub> = 5mA	3.2	4.6	6.2	mV/°C

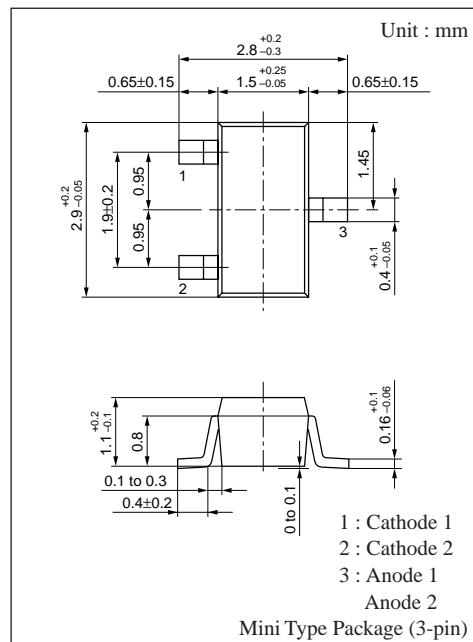
Note 1. Rated input/output frequency : 5MHz

2. \*<sup>1</sup> : The V<sub>Z</sub> value is for the temperature of 25°C. In other cases, carry out the temperature compensation.

\*<sup>2</sup> : Guaranteed at 20ms after power application

\*<sup>3</sup> : T<sub>j</sub>= 25 to 150°C

## ■ Marking



## ■ Internal Connection

