

# 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	$I_{F(AV)}$	100* <sup>1</sup>	mA
Instantaneous forward current	$I_{FRM}$	200* <sup>1</sup>	mA
Total power dissipation	$P_{tot}$ * <sup>2</sup>	100* <sup>1</sup>	mW
Non-repetitive reverse surge power dissipation	$P_{ZSM}$ * <sup>3</sup>	15	W
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	- 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=100μs, T<sub>j</sub>=150°C

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

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	$V_F$	$I_F=10mA$		0.8	0.9	V
Zener voltage	$V_Z$ * <sup>2</sup>	$I_Z=5mA$	7.70		8.70	V
Operating resistance	$R_{ZK}$	$I_Z=0.5mA$			120	Ω
	$R_Z$	$I_Z=5mA$			15	Ω
Reverse current	$I_{R1}$	$V_R=5V$			0.5	μA
	$I_{R2}$	$V_R=7.2V$			60	μA
Temperature coefficient of zener voltage	$S_Z$ * <sup>3</sup>	$I_Z=5mA$	3.2	4.6	6.2	mV/°C

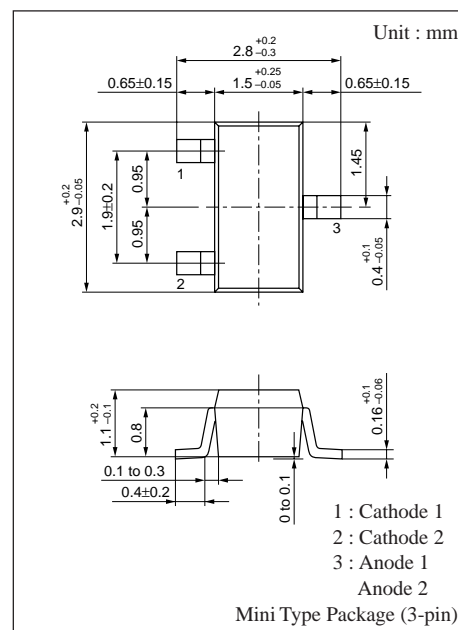
Note 1. Rated input/output frequency : 5MHz

2. \*<sup>1</sup> : The  $V_Z$  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

