

# MA3056W

Silicon planer type

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

## ■ Features

- Mini type package (4-pin)
- Two-element wiring in parallel of MA3056

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

Parameter	Symbol	Rating	Unit	
Average forward current	Single	$I_{F(AV)}$	100	mA
	Double	$I_{F(AV)}$	75	mA
Instantaneous forward current	Single	$I_{FRM}$	200	mA
	Double	$I_{FRM}$	150	mA
Total power dissipation	Single	$P_{tot}^{*1}$	200	mW
	Double	$P_{tot}^{*1}$	150	mW
Non-repetitive reverse surge power dissipation	$P_{ZSM}^{*2}$	15	W	
Junction temperature	$T_j$	150	°C	
Storage temperature	$T_{stg}$	- 55 to + 150	°C	

\*1 With a printed-circuit board

\*2  $t=100\mu s$ ,  $T_j=150^\circ C$

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

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	$V_F$	$I_F=10mA$		0.8	0.9	V
Zener voltage	$V_Z^{*2}$	$I_Z=5mA$	5.3	5.6	6.0	V
Operating resistance	$R_Z$	$I_Z=5mA$		15	40	$\Omega$
Reverse current	$I_R$	$V_R=2V$			1	$\mu A$
Temperature coefficient of zener voltage	$S_Z^{*3}$	$I_Z=5mA$	- 2.0	1.2	2.5	$mV/^\circ C$
Terminal capacitance	$C_D$	$V_R=0V, f=1MHz$		95	140	pF

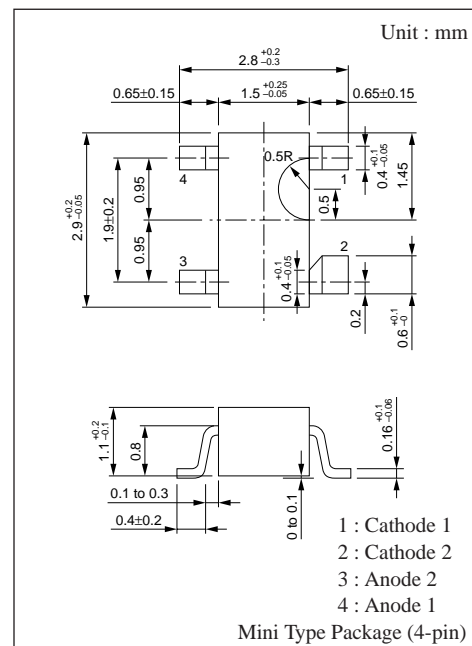
Note 1. Rated input/output frequency : 5MHz

2. \*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  $125^\circ C$

## ■ Marking



## ■ Internal Connection

