

MA3100WA

Silicon planer type

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

■ Features

- Mini type package (3-pin)
- Two anode-common wiring of MA3120

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Average forward current	$I_{F(AV)}$	100 * ¹	mA
Instantaneous forward current	I_{FRM}	200 * ¹	mA
Total power dissipation	P_{tot} * ²	100 * ¹	mW
Non-repetitive reverse surge power dissipation	P_{ZSM} * ³	15	W
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

*³ $t=100\mu s$, $T_j=150^\circ C$

■ 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	$I_Z= 5mA$	11.4	12.0	12.7	V
Operating resistance	R_{ZK}	$I_Z= 0.5mA$			170	Ω
	R_Z	$I_Z= 5mA$		10	25	Ω
Reverse current	I_{R1}	$V_R= 8.0V$			0.1	μA
	I_{R2}	$V_R= 10.9V$			60	μA
Temperature coefficient of zener voltage	S_Z * ³	$I_Z= 5mA$	6.0	8.4	8.4	mV/°C

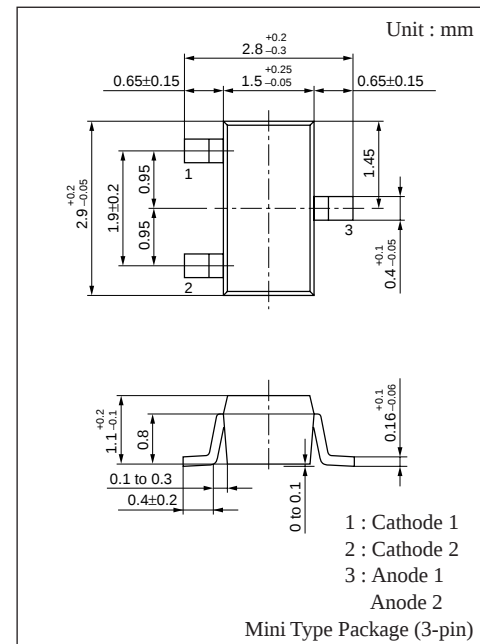
Note 1. Rated input/output frequency : 5MHz

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 $150^\circ C$

■ Marking



■ Internal Connection

