

MA3100WA

Silicon planer type

Constant voltage, constant current, waveform
ripper 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=100μ s, T_j=150°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 _{RI}	V _R = 8.0V			0.1	μA
	I _{IR2}	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

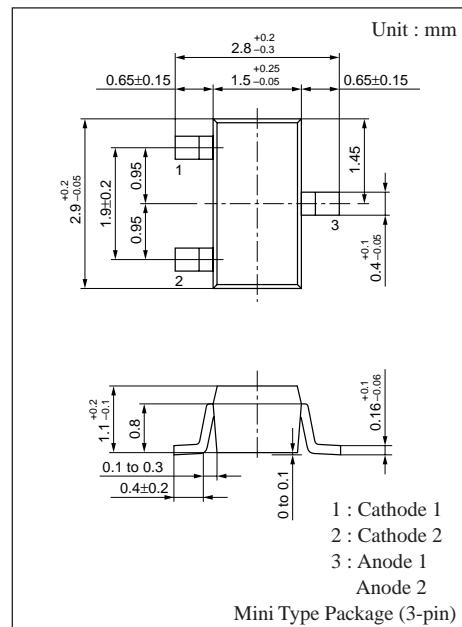
Note 1. Rated input/output frequency : 5MHz

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°C

■ Marking



■ Internal Connection

