

MA3091WK

Silicon planer type

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

■ Features

- Mini type package (3-pin)
- Two cathode-common wiring of MA3091

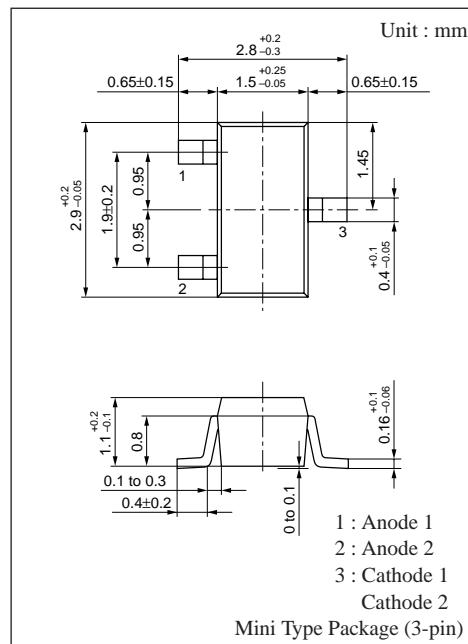
■ Absolute Maximum Ratings (Ta= 25°C)

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

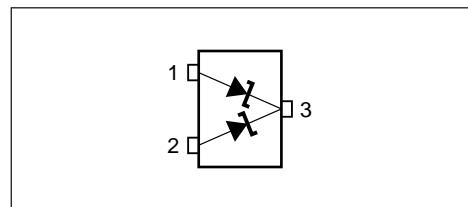
*¹ Working value in a single piece

*² With a printed-circuit board

*³ t=100μ s, T_j=150°C



■ Internal Connection



■ 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	8.5	9.1	9.6	V
Operating resistance	R _{ZK}	I _Z = 0.5mA			130	Ω
	R _Z	I _Z = 5mA		6	15	Ω
Reverse current	I _{R1}	V _R = 6V			0.2	μA
	I _{R2}	V _R = 8V			60	μA
Temperature coefficient of zener voltage	S _Z * ³	I _Z = 5mA	3.8	5.5	7	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



