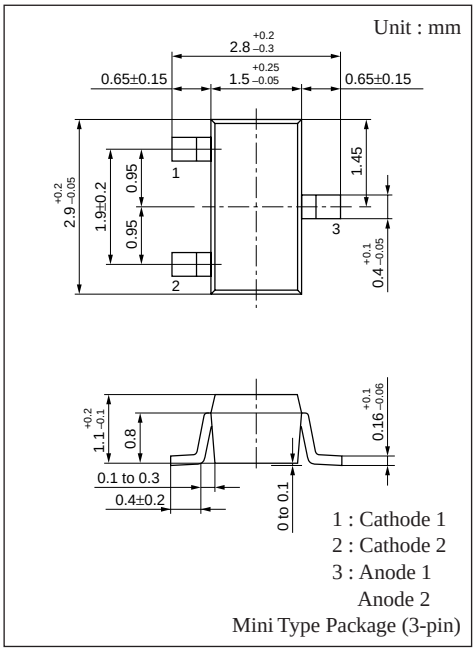
MA3082WA

Silicon planer type

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

■ Features

- Mini type package (3-pin)
- Two anode-common wiring of MA3082

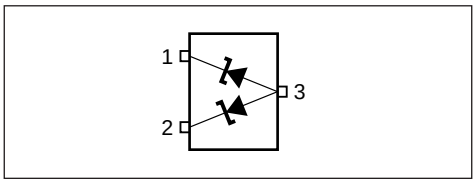


■ Absolute Maximum Ratings (Ta= 25˚C)

Parameter	Symbol	Rating	Unit
Average forward current	$I_{F(AV)}$	100*1	mA
Instanious 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	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*3	I_Z= 5mA	3.2	4.6	6.2	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 : Guaranteeed at 20ms after power application
* 3 : T_j= 25 to 150˚C

■ Marking



P_{tot} – Ta

