

MA3130WA

Silicon planer type

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

■ Features

- Mini type package (3-pin)
- Two anode-common wiring of MA3130

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Average forward current	$I_{F(AV)}$	100 * ¹	mA
Instantious 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	$I_Z=5mA$	12.40		14.10	V
Operating resistance	R_{ZK}	$I_Z=0.5mA$			170	Ω
	R_Z	$I_Z=5mA$			30	Ω
Reverse current	I_{R1}	$V_R=9.0V$			0.1	μA
	I_{R2}	$V_R=11.9V$			60	μA
Temperature coefficient of zener voltage	S_Z * ³	$I_Z=5mA$	7.0	9.4	11.0	mV/°C

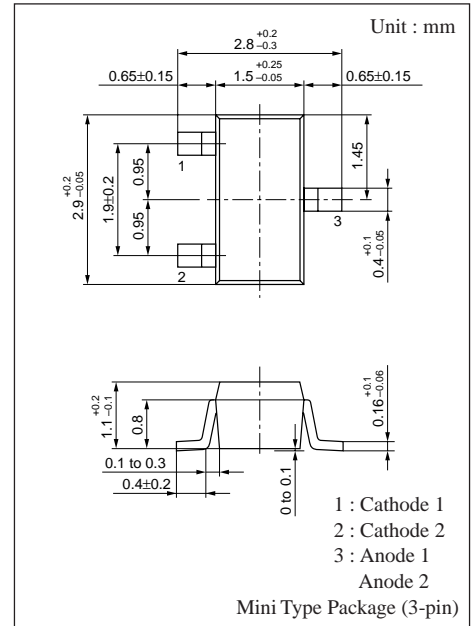
Note 1. Rated input/output frequency : 5MHz

2. *¹ : The V_Z value is for the temperature of 25°C. In other cases, carry out the temperature compensation.

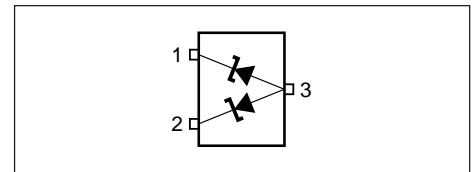
*² : Guaranteed at 20ms after power application

*³ : T_j= 25 to 150°C

■ Marking



■ Internal Connection



$P_{tot} - T_a$

