

MA3056W

Silicon planer type

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

■ Features

- Mini type package (4-pin)
- Two-element wiring in parallel of MA3056

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit	
Average forward current	Single	$I_{F(AV)}$	100	mA
	Double	$I_{F(AV)}$	75	mA
Instantaneous forward current	Single	I_{FRM}	200	mA
	Double	I_{FRM}	150	mA
Total power dissipation	Single	P_{tot}^{*1}	200	mW
	Double	P_{tot}^{*1}	150	mW
Non-repetitive reverse surge power dissipation	P_{ZSM}^{*2}	15	W	
Junction temperature	T_j	150	°C	
Storage temperature	T_{stg}	- 55 to + 150	°C	

*1 With a printed-circuit board

*2 $t=100\mu s$, $T_j=150^\circ C$

■ 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}	$I_Z= 5mA$	5.3	5.6	6.0	V
Operating resistance	R_Z	$I_Z= 5mA$		15	40	Ω
Reverse current	I_R	$V_R= 2V$			1	μA
Temperature coefficient of zener voltage	S_Z^{*3}	$I_Z= 5mA$	- 2.0	1.2	2.5	$mV/^\circ C$
Terminal capacitance	C_D	$V_R= 0V, f=1MHz$		95	140	pF

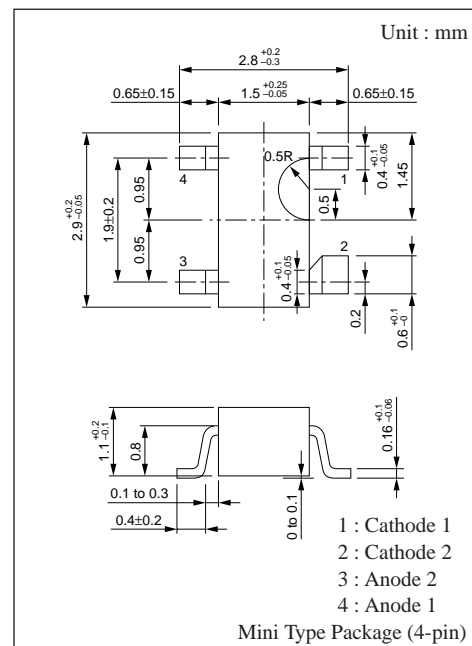
Note 1. Rated input/output frequency : 5MHz

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

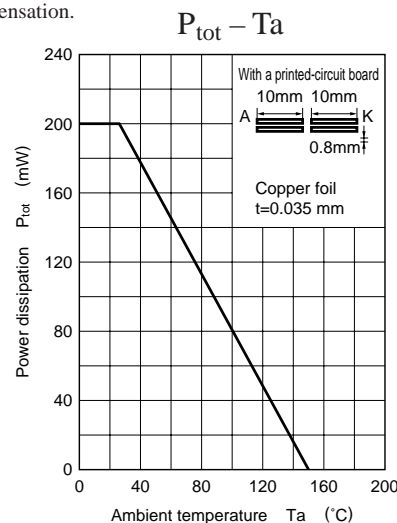
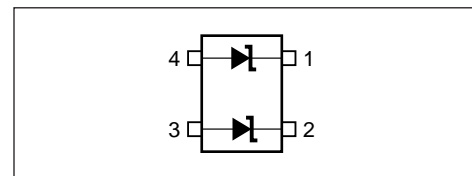
* 2 : Guaranteed at 20ms after power application

* 3 : $T_j= 25$ to $125^\circ C$

■ Marking



■ Internal Connection



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