

# MAZE062D

## Silicon planer type

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

### ■ Features

- S-Mini type package (3-pin)
- Low joint capacity zener diode ( $V_Z = 6.2V$ )
- Two anode-common element wiring

### ■ Absolute Maximum Ratings ( $T_a = 25^\circ C$ )

Parameter	Symbol	Rating	Unit
Instantaneous forward current	$I_{FRM}$	200	mA
Total power dissipation	$P_{tot}^*$	150	mW
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature	$T_{stg}$	- 55 to + 150	$^\circ C$

\* With a printed-circuit board

### ■ Electrical Characteristics ( $T_a = 25^\circ C$ )\*<sup>1</sup>

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	$V_F$	$I_F = 10mA$		0.9	1.0	V
Zener voltage	$V_Z^{*2}$	$I_Z = 5mA$	5.9		6.5	V
Operating resistance	$R_{ZK}$	$I_Z = 0.5mA$			100	$\Omega$
	$R_Z$	$I_Z = 5mA$			30	$\Omega$
Reverse current	$I_R$	$V_R = 5.5V$			3	$\mu A$
Terminal capacitance	$C_t$	$V_R = 0V, f = 1MHz$		8		pF

Note 1. Rated input/output frequency : 5MHz

2. Test method : Depend on JIS C7031 testing

3. Electrostatic discharge is  $\pm 15kV$

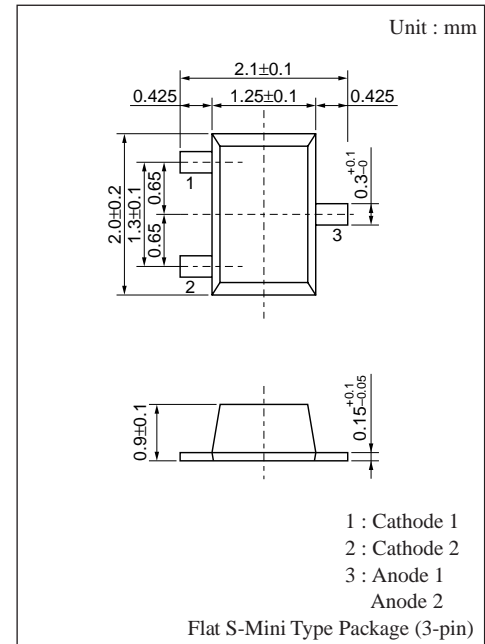
Test method : IEC-801(C=150pF, R=330 $\Omega$ , Contact discharge : 10 times)

Test unit : ESS-200AX

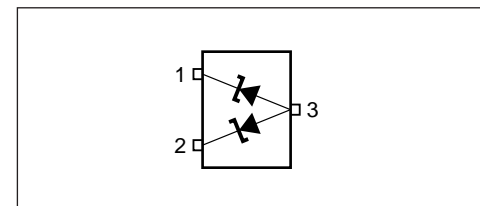
4. \*<sup>1</sup> : The  $V_Z$  value is for the temperature of  $25^\circ C$ . In other cases, carry out the temperature compensation.

\*<sup>2</sup> : Guaranteed at 20ms after power application

### ■ Marking



### ■ Internal Connection



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