

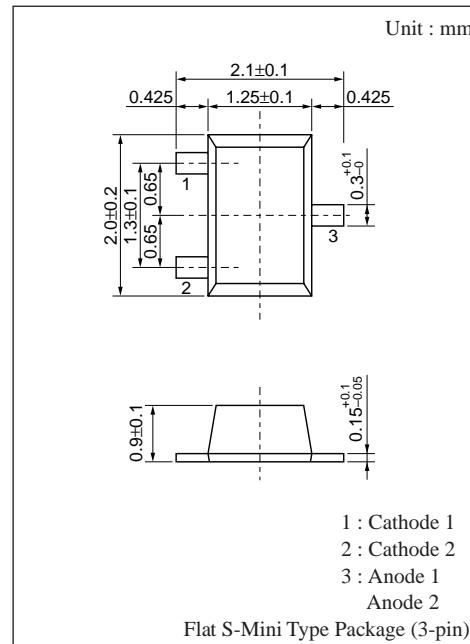
# MAZE062D

Silicon planer type

Constant voltage, constant current, waveform  
ripper 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	°C
Storage temperature	$T_{stg}$	-55 to +150	°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	$V_F$	$I_F=10\text{mA}$		0.9	1.0	V
Zener voltage	$V_Z^{*2}$	$I_Z=5\text{mA}$	5.9		6.5	V
Operating resistance	$R_{ZK}$	$I_Z=0.5\text{mA}$			100	$\Omega$
	$R_Z$	$I_Z=5\text{mA}$			30	$\Omega$
Reverse current	$I_R$	$V_R=5.5V$			3	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R=0V, f=1\text{MHz}$		8		pF

Note 1. Rated input/output frequency : 5MHz

2. Test method : Depend on JIS C7031 testing

3. Electrostatic discharge is  $\pm 15\text{kV}$

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

