

# MALT062H

## Silicon planar type

For ESD protection

### ■ Features

- Electrostatic discharge ESD:  $\pm 30$  kV
- Four elements anode-common type

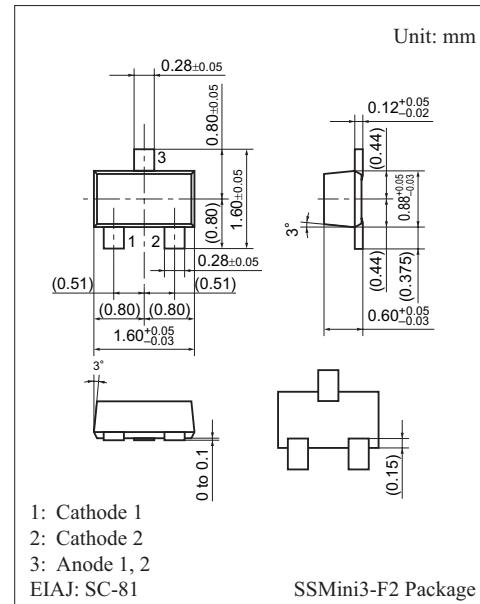
### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Total power dissipation <sup>*1</sup>	$P_D$	150	mW
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$
Electrostatic discharge <sup>*2</sup>	ESD	$\pm 30$	kV

Note) \*1:  $P_D = 150$  mW achieved with a printed circuit board.

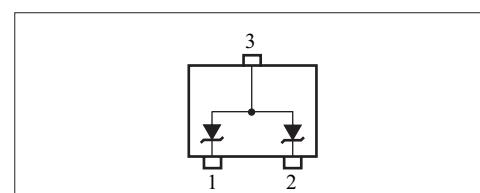
\*2: Test method: IEC61000-4-2

( $C = 150$  pF,  $R = 330$   $\Omega$ , Contact discharge: 10 times)



Marking Symbol: 6.2E

Internal Connection



### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

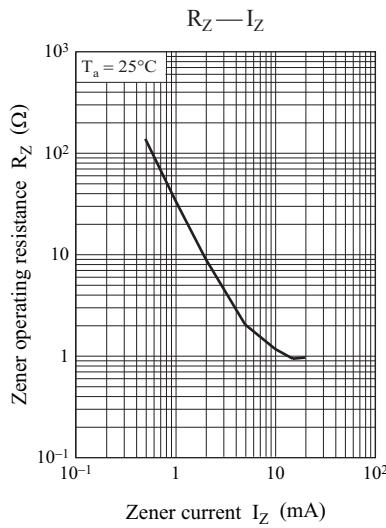
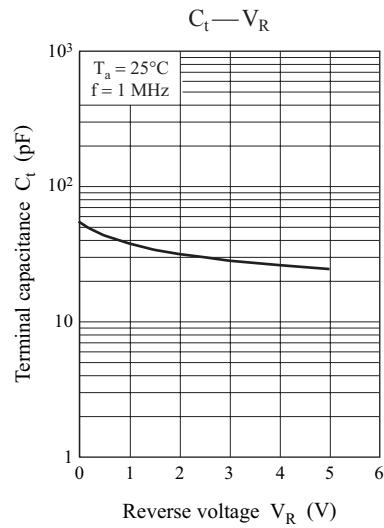
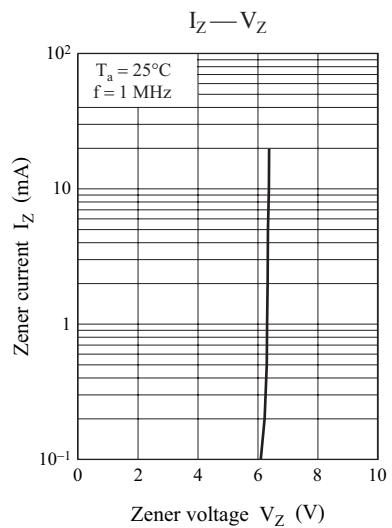
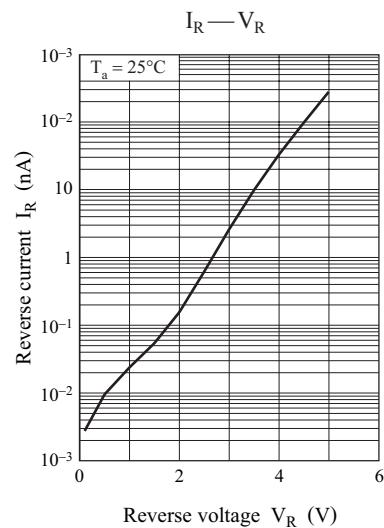
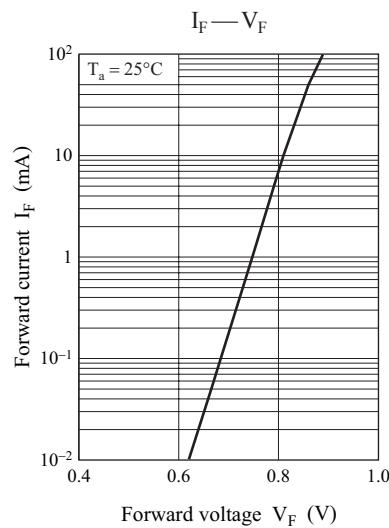
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Breakdown voltage *	$V_{BR}$	$I_R = 1$ mA	5.8	6.2	6.6	V
Reverse current	$I_R$	$V_R = 4.0$ V			1.0	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz		55		pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. The temperature must be controlled  $25^\circ\text{C}$  for  $V_{BR}$  measurement.

$V_{BR}$  value measured at other temperature must be adjusted to  $V_{BR}$  ( $25^\circ\text{C}$ )

3. \*:  $V_{BR}$  guaranteed 20 ms after current flow.



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