

# MANV250GE

## Silicon planar type

For surge protect

### ■ Features

- Large surge reduction power

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

Parameter	Symbol	Rating	Unit
Peak pulse power *1	$P_{PP}$	450	W
Peak pulse current *1	$I_{PP}$	9	A
Maximum peak reverse voltage	$V_{RM}$	18	V
Total power dissipation *2	$P_T$	150	mW
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$
Electrostatic discharge *3	ESD	$\pm 30$	kV

Note) \*1: Test method: IEC61000-4-5 ( $t_p = 8/20$  ms, Unrepeated)

\*2:  $P_T = 150$  mW achieved with a printed circuit board.

\*3: Test method: IEC61000-4-2 ( $C = 150$  pF,  $R = 330 \Omega$ , Contact discharge: 10 times)

### ■ Package

- Code  
SMini2-F3
- Pin Name  
1: Anode  
2: Cathode

### ■ Marking Symbol: RD

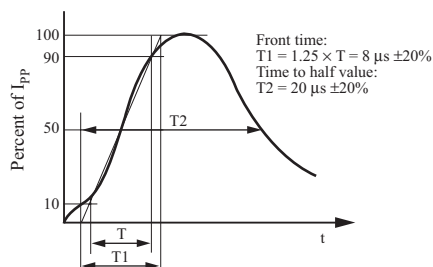
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

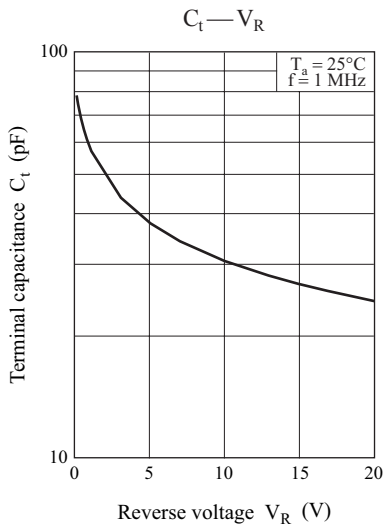
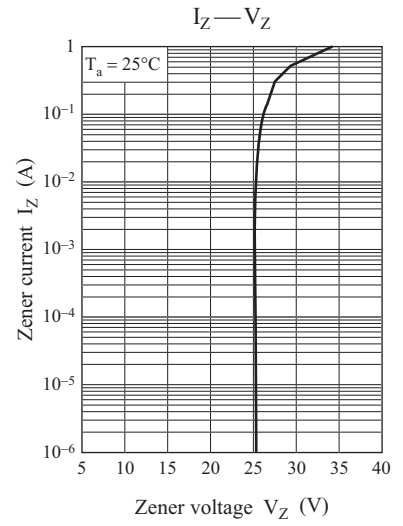
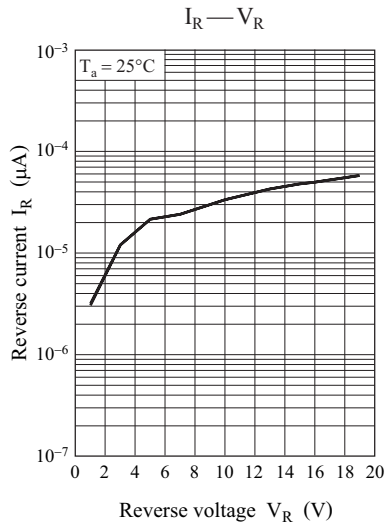
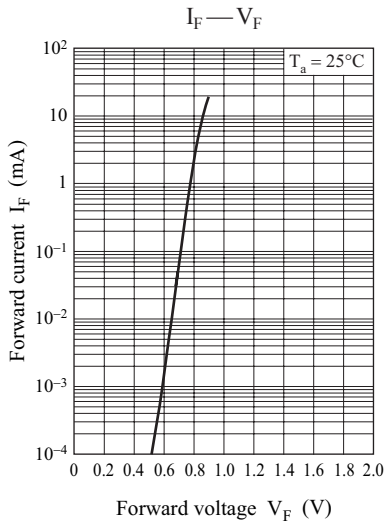
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Breakdown voltage *1	$V_{BR}$	$I_R = 1$ mA	20.0	25.0	30.0	V
Reverse current	$I_R$	$V_R = 18$ V			10.0	$\mu\text{A}$
Clamping voltage *2	$V_C$	$I_{PP} = 9.0$ A, $t_p = 8/20 \mu\text{s}$			50.0	V
Terminal capacitance	$C_t$	$I_R = 0$ V, $f = 1$ MHz		76		pF

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

2. \*1:  $V_Z$  guaranteed 20 ms after current flow.

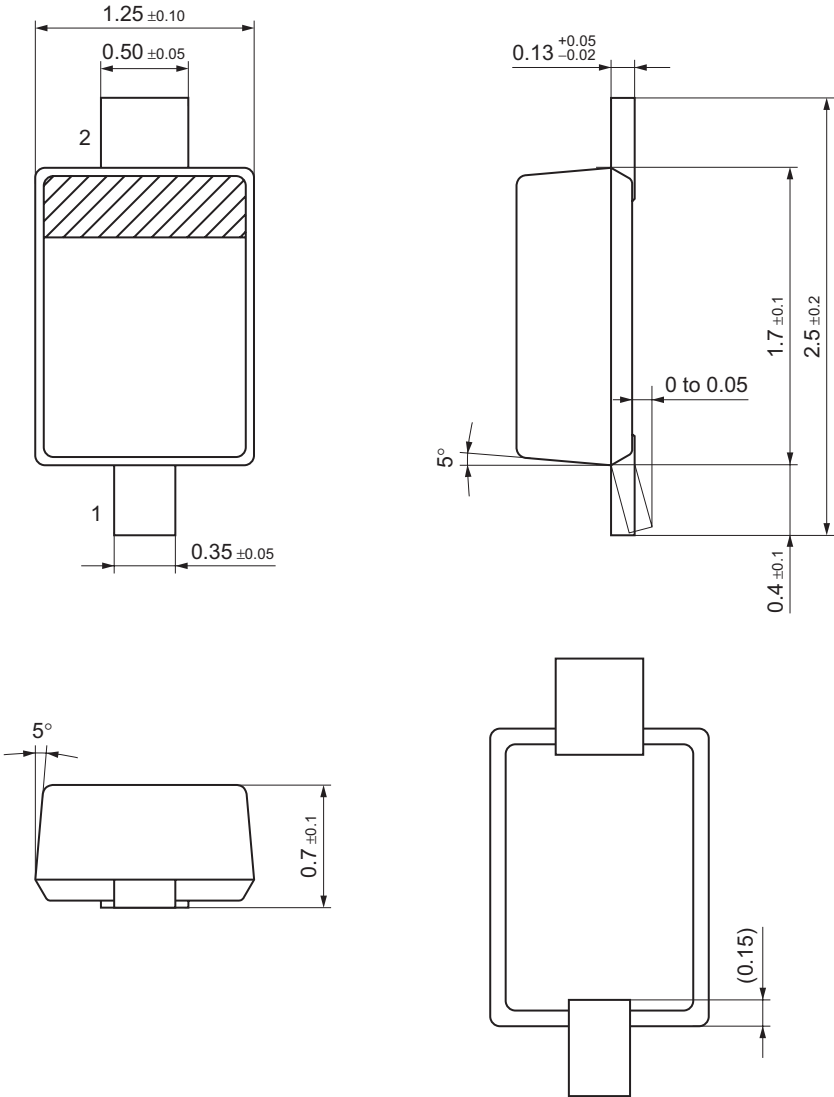
\*2: Pulse Waveform





SMini2-F3

Unit: mm



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