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# MA3X1000G

## Silicon epitaxial planar type

For switching circuits

### ■ Features

- High breakdown voltage:  $V_R = 200$  V
- Small terminal capacitance  $C_t$

### ■ Package

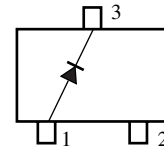
- Code  
SMini3-F2
- Pin Name  
1: Anode  
2: N.C.  
3: Cathode

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	200	V
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Forward current (Average)	$I_{F(AV)}$	100	mA
Repetitive peak forward current	$I_{FRM}$	225	mA
Non-repetitive peak forward surge current *	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

### ■ Marking Symbol: M3A

### ■ Internal Connection



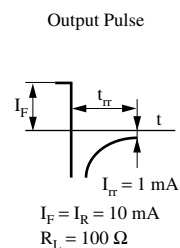
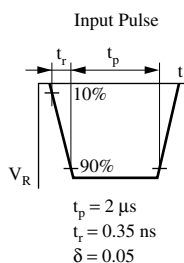
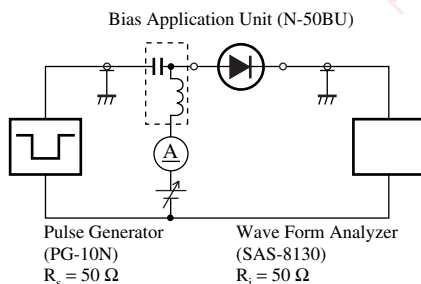
Note) \*:  $t = 1$  s

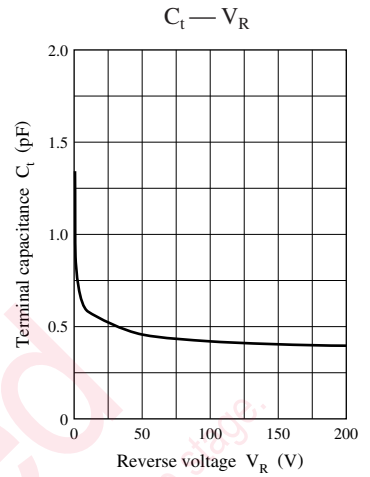
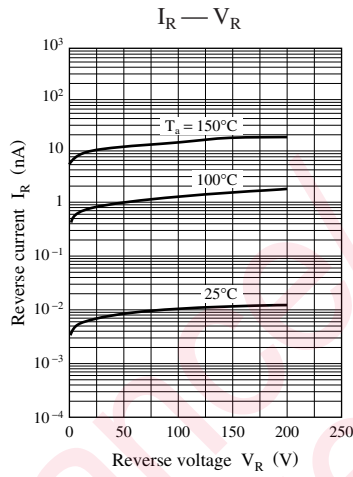
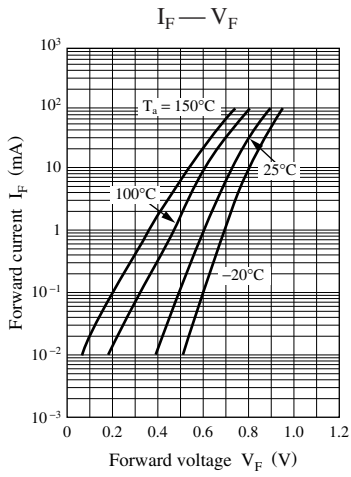
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 100$ mA			1.2	V
Reverse current	$I_R$	$V_R = 200$ V			1.0	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz			3.0	pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 10$ mA $I_{rr} = 1$ mA, $R_L = 100$ $\Omega$			60	ns

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

2. Absolute frequency of input and output is 20 MHz.
3. \*:  $t_{rr}$  measurement circuit





Maintenance/Discontinued

includes following four Product lifecycle stages:

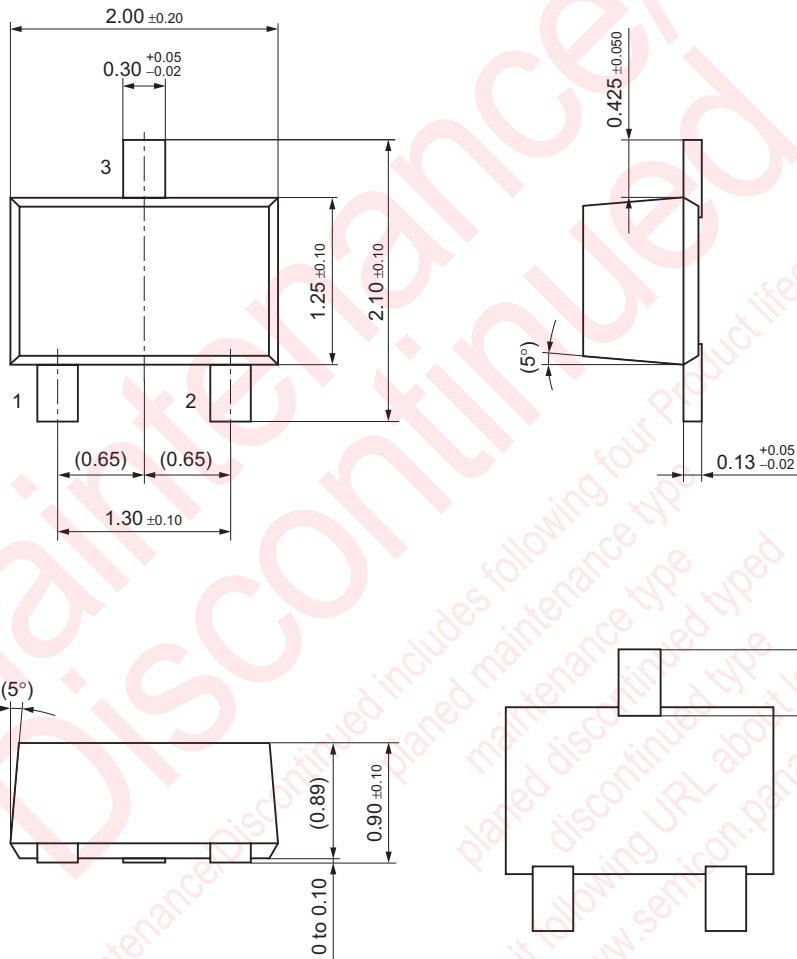
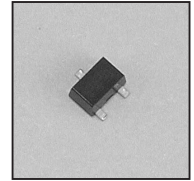
- planned maintenance type
- maintenance type
- planned discontinued type
- discontinued type

Please visit following URL about latest information.

http://www.semicon.panasonic.co.jp/en/

SMini3-F2

Unit: mm



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