MA27D300G

Silicon epitaxial planar type

For super high speed switching

Features

- Small reverse current: $I_R < 2 \ \mu A$ (at $V_R = 30 \ V$)
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}.
- Package
- Code
 SSSMini2-F3
- Pin Name 1: Anode
 - 2: Cathode

Marking Symbol: 8N

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	30	V
Repetitive peak reverse voltage	V _{RRM}	30	V
Forward current (Average)	I _{F(AV)}	100	mA
Peak forward current	I _{FM}	200	mA
Non-repetitive peak forward surge current *	I _{FSM}	1	А
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Note) * : The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

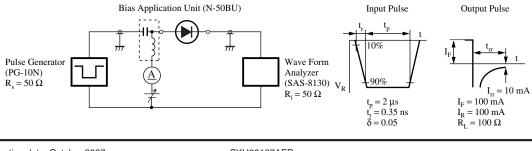
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 10 \text{ mA}$	1	0.38	0.44	V
	V _{F2}	$I_{\rm F} = 100 \text{ mA}$	<u>S</u>	0.51	0.58	V
Reverse current	I _{R1}	V _R = 10 V	and i)-	0.3	μΑ
	I _{R2}	V _R = 30 V	<i>S</i> .		2	μΑ
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		9		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		1		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

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

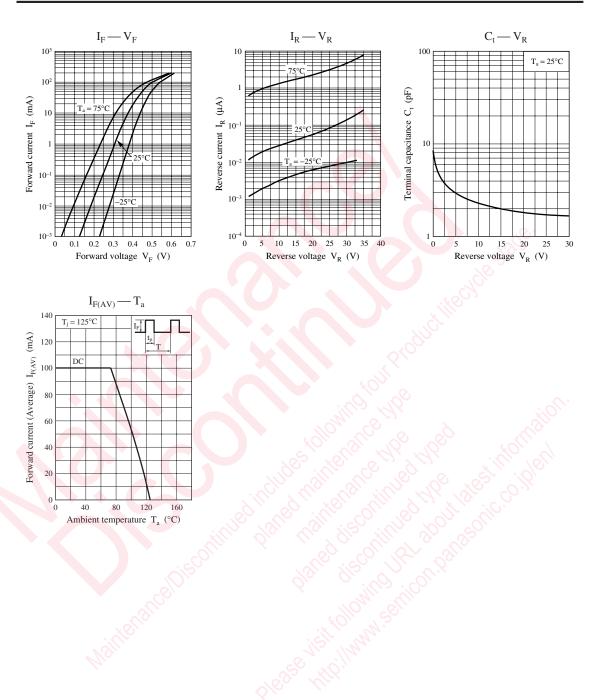
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

- 3. Absolute frequency of input and output is 250 MHz
- 4. *: t_{rr} measurement circuit



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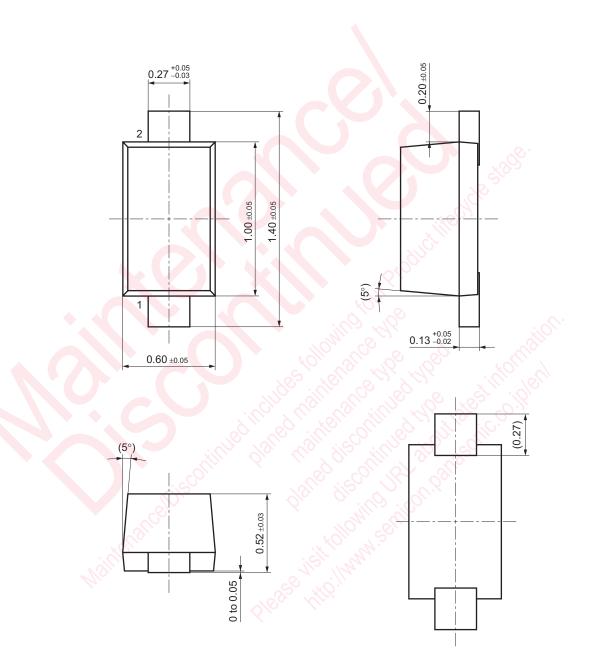
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SSSMini2-F3

Unit: mm



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