Switching Diode

#### DA3X102D0L

# **Panasonic**

#### DA3X102D0L

Silicon epitaxial planar type

For high speed switching circuits DA3J102D in Mini3 type package

#### Features

- Short reverse recovery time trr
- · Low terminal capacitance Ct
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 23

■ Basic Part Number : 2 elements anode-common type

■ Packaging

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

2. 9 0. 4 0. 16 1. Cathode1 2. Cathode2				
3 1 (0. 95) (0. 95) 1. Cathode1				
1 (0. 95) (0. 95) 1. 9				
(0. 95) (0. 95) 1. 9				
1. 9 1. Cathode1				
Panasonic Mini3-G3-B				
JEITA SC-59A				
Code TO-236AA/SOT-23				

Panasonic	Mini3-G3-B
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■ Absolute Maximum Ratings Ta = 25 °C

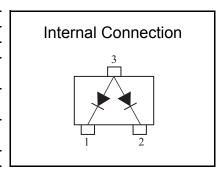
Parameter		Symbol	Rating	Unit	
Reverse voltage		VR	80	V	
Maximum peak reverse voltage		VRM	80	V	
Forward current Single		IF	100	mA	
- Forward Current	Double	IF	150	IIIA	
Peak forward current Single Double		IFM	225	mA	
		IITIVI	340		
Non-repetitive peak Single		IFSM	500	mA	
forward surge current *1 Double		IFSIVI	750		
Junction temperature		Tj	150	°C	
Operating ambient temperature		Topr	-40 to +85	°C	
Storage temperature		Tstg	-55 to +150	°C	
	•	•	•	•	

Note) \*1: t = 1 s

Established: 2010-02-24

: 2013-06-12

Revised



Revision. 3

Switching Diode

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■ Electrical Characteristics Ta = 25 °C ± 3 °C

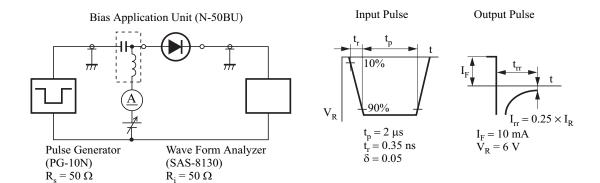
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 100 mA			1.2	V
Reverse voltage	VR	IR = 100 μA	80			V
Reverse current	IR	VR = 80 V			100	nA
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz			15	pF
Reverse recovery time *1	trr	IF = 10mA, VR = 6V Irr = 0.25 x IR			10	ns

- 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 100 MHz.
    - 3. \*1: trr test circuit

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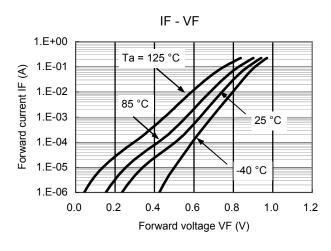
Doc No. TT4-EA-12397 Revision. 3

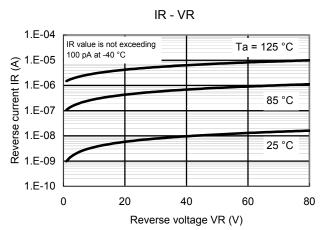
**Panasonic** 

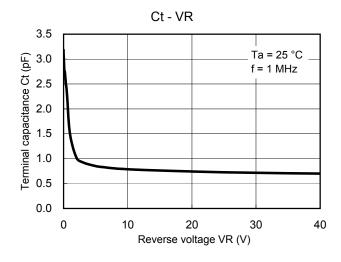
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### Technical Data (reference)







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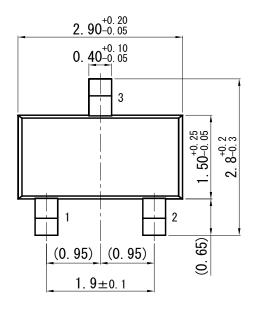
**Panasonic** 

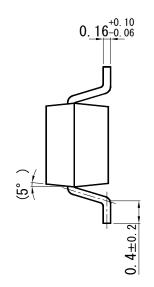
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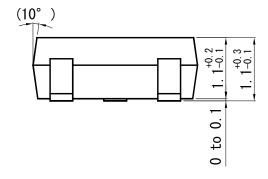
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Mini3-G3-B

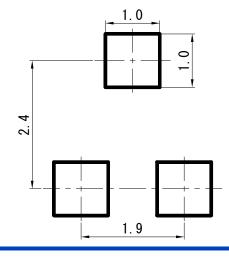
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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