Switching Diode

### **DA3S102D0L**

# **Panasonic**

## **DA3S102D0L**

Silicon epitaxial planar type

For high speed switching circuits DA3J102D in SSMini3 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

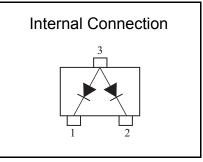
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

	Unit: mm			
1. 6 0. 26 3 3 (0. 5) (0. 1. 0 1. Cathoo 2. Cathoo 3. Anode	0. 13 9. 0. 7 5) de1 de2			
Panasonic	SSMini3-F3-B			
JEITA	SC-89			
Code	SOT-490			

■ 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	11	150	mA
Peak forward current	Single	IFM	225	mA
	Double	IITIVI	340	mA
Non-repetitive peak	Single	IFSM	500	mA
forward surge current *1	Double	IFOIVI	750	mA
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	•			<u> </u>





Established: 2010-02-24 Revised: 2013-06-12 Doc No. TT4-EA-12396

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 = 10 mA, VR = 6 V			10	ns
		Irr = 0.25 × IR				

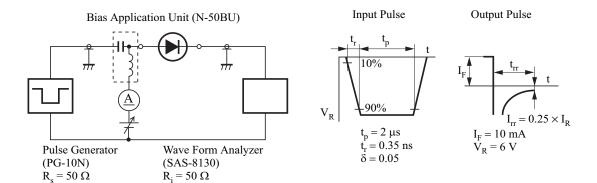
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.

- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*1: trr test circuit

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: 2013-06-12



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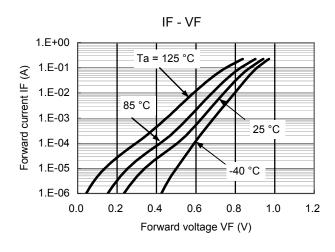
Revision. 3

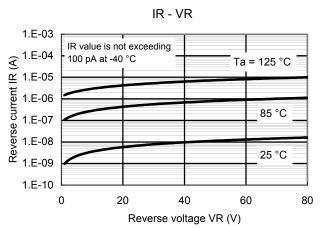
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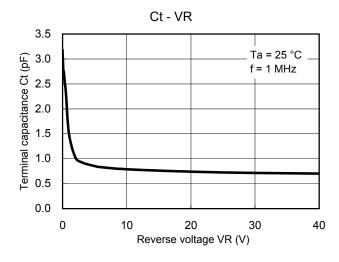
Switching Diode

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## Technical Data (reference)







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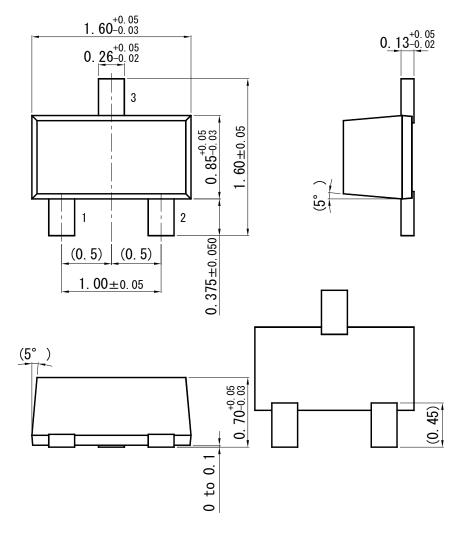
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## **DA3S102D0L**

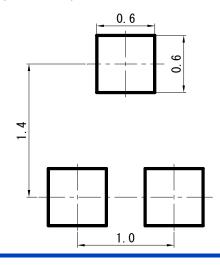
## SSMini3-F3-B

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Unit: mm



### ■ Land Pattern (Reference) (Unit: mm)



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