Switching Diode

#### **DA3S103E0L**

# **Panasonic**

### **DA3S103E0L**

Silicon epitaxial planar type

For high speed switching circuits DA3J103E 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: 24

■ Basic Part Number : 2 elements cathode-common type

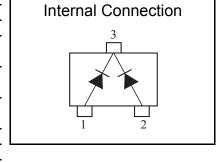
■ Packaging

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

	Unit: mm				
1. 6 0. 26 3 (0. 5) (0. 1. 0 1. Anode 2. Anode 3. Cathod	9. 13 9. 0. 7 5) 1				
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		
Peak forward current	Single	IFM	225	mA	
Feak lorward current	Double	IITIVI	340		
Non-repetitive peak	Single	IFSM	500	mA	
forward surge current *1	Double	IFOIVI	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: 2010-02-22

Revised

: 2013-06-28

Revision. 3

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

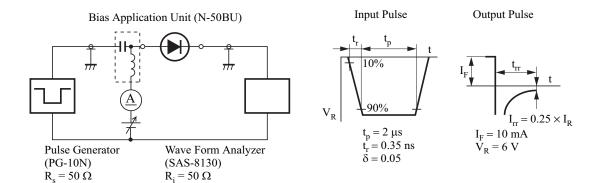
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 100 mA			1.2	V
Reverse voltage	VR	IR = 100 μA	80			V
Reverse current	IR	VR = 80 V			100	nA
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		2	15	pF
Reverse recovery time *1	trr	IF = 10 mA, VR = 6 V		2	10	ns
		Irr = 0.25 x IR			10	

- 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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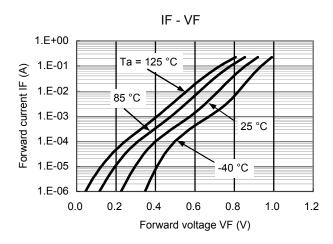
Revision. 3

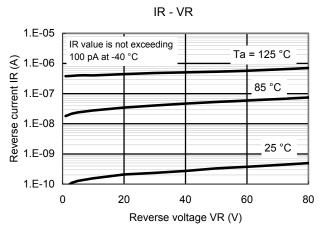
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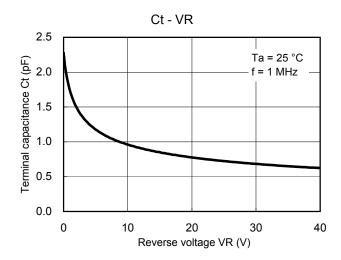
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## Technical Data (reference)







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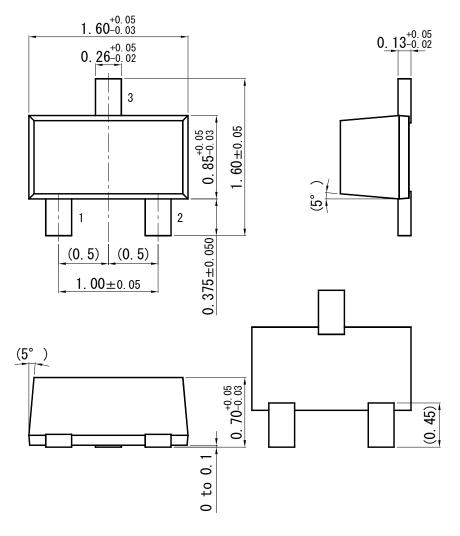
Switching Diode

### **DA3S103E0L**

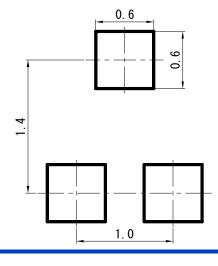
# SSMini3-F3-B

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Unit: mm



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



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