

DA4J101K0R

Panasonic

DA4J101K0R

Silicon epitaxial planar type

For high speed switching circuits

DA4X101K in SMini4 type package

■ Features

- Small reverse current I_R
- Short reverse recovery time t_{rr}
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 21

■ Basic Part Number :

Dual DA2J101 (Parallel)

■ Packaging

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

Unit: mm

Top View Dimensions:

- Overall Width: 2.0
- Overall Height: 2.1
- Internal Height: 1.25
- Terminal 1 Width: 0.3
- Terminal 2 Width: 0.3
- Terminal 3 Width: 0.3
- Terminal 4 Width: 0.3
- Terminal 1 Position: 1.3 (from center line)
- Terminal 2 Position: 1.3 (from center line)
- Terminal 3 Position: 0.65 (from center line)
- Terminal 4 Position: 0.65 (from center line)

Side View Dimensions:

- Terminal 1 Height: 0.13
- Terminal 2 Height: 0.7

Legend:

- 1. Anode 1
- 2. Anode 2
- 3. Cathode 2
- 4. Cathode 1

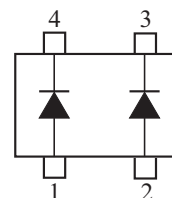
Panasonic	SMini4-F3-B
JEITA	SC-113BB
Code	—

■ Absolute Maximum Ratings Ta = 25 °C

Parameter		Symbol	Rating	Unit
Reverse voltage		VR	80	V
Maximum peak reverse voltage		VRM	80	V
Forward current (Average)	Single	IF(AV)	100	mA
	Double		75	
Repetitive peak forward current	Single	IFRM	225	mA
	Double		170	
Non-repetitive peak forward surge current ^{*1}	Single	IFSM	500	mA
	Double		375	
Junction temperature		Tj	150	°C
Operating ambient temperature		Topr	-40 to +85	°C
Storage temperature		Tstg	-55 to +150	°C

Note) *1: $t = 1 \text{ s}$

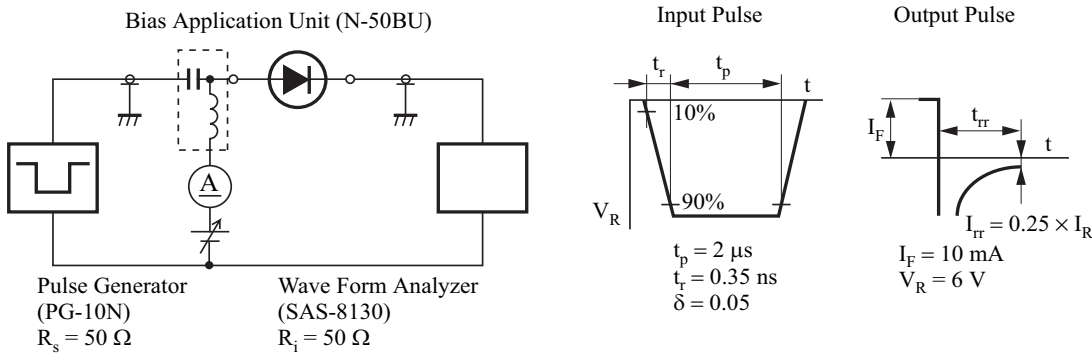
Internal Connection



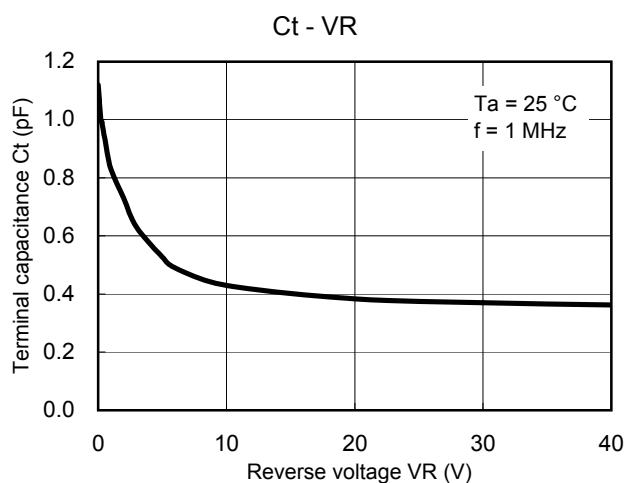
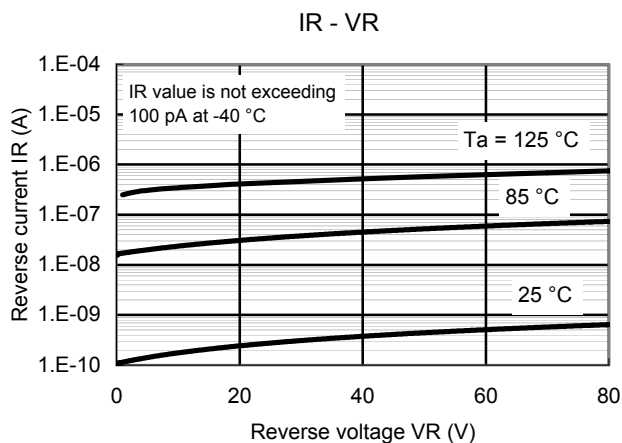
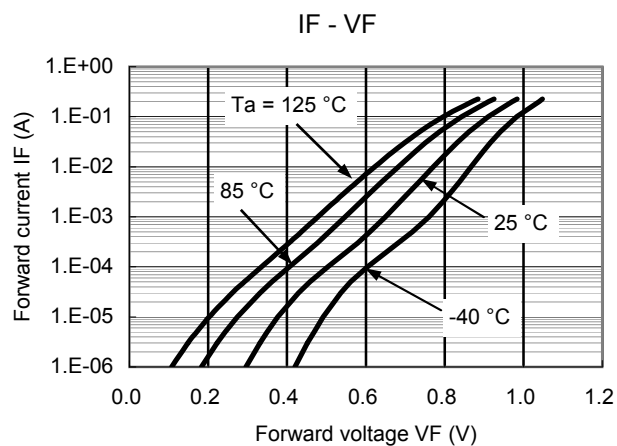
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 100 mA		0.95	1.20	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		0.9	2.0	pF
Reverse recovery time *1	trr	IF = 10 mA , VR = 6 V Irr = 0.25 x IR			3	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



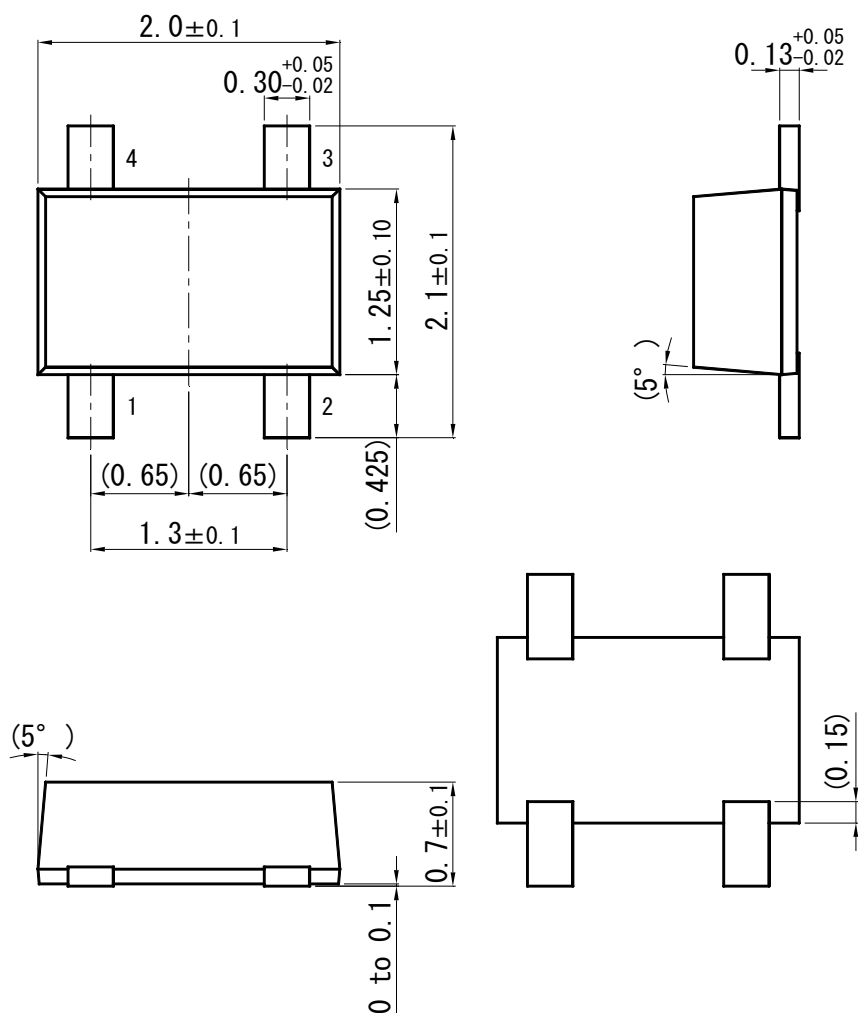
Technical Data (reference)



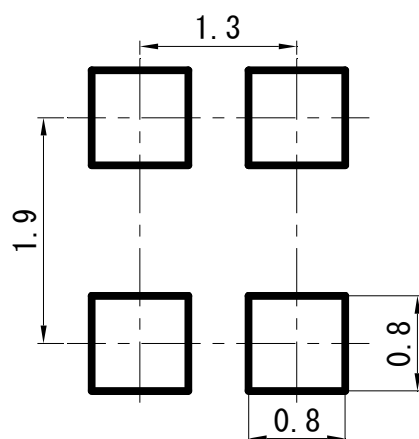
Panasonic

SMini4-F3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



**Request for your special attention and precautions in using the technical information and
semiconductors described in this book**

- (1) If any of the products or technical information described in this book is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially, those with regard to security export control, must be observed.
- (2) The technical information described in this book is intended only to show the main characteristics and application circuit examples of the products. No license is granted in and to any intellectual property right or other right owned by Panasonic Corporation or any other company. Therefore, no responsibility is assumed by our company as to the infringement upon any such right owned by any other company which may arise as a result of the use of technical information described in this book.
- (3) The products described in this book are intended to be used for general applications (such as office equipment, communications equipment, measuring instruments and household appliances), or for specific applications as expressly stated in this book.
Consult our sales staff in advance for information on the following applications:
 - Special applications (such as for airplanes, aerospace, automotive equipment, traffic signaling equipment, combustion equipment, life support systems and safety devices) in which exceptional quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or harm the human body.It is to be understood that our company shall not be held responsible for any damage incurred as a result of or in connection with your using the products described in this book for any special application, unless our company agrees to your using the products in this book for any special application.
- (4) The products and product specifications described in this book are subject to change without notice for modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.
- (5) When designing your equipment, comply with the range of absolute maximum rating and the guaranteed operating conditions (operating power supply voltage and operating environment etc.). Especially, please be careful not to exceed the range of absolute maximum rating on the transient state, such as power-on, power-off and mode-switching. Otherwise, we will not be liable for any defect which may arise later in your equipment.
Even when the products are used within the guaranteed values, take into the consideration of incidence of break down and failure mode, possible to occur to semiconductor products. Measures on the systems such as redundant design, arresting the spread of fire or preventing glitch are recommended in order to prevent physical injury, fire, social damages, for example, by using the products.
- (6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.
- (7) This book may be not reprinted or reproduced whether wholly or partially, without the prior written permission of our company.