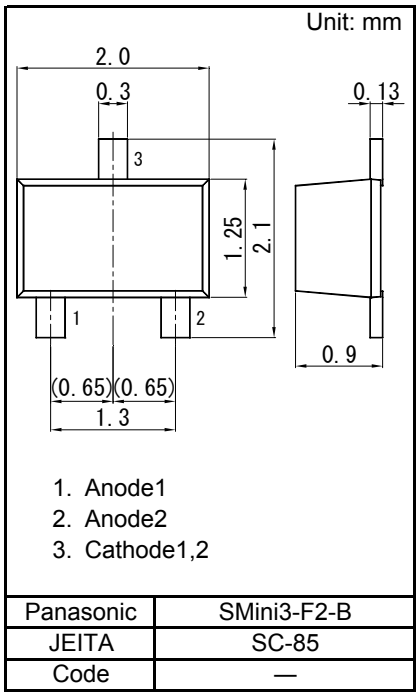
Switching Diode

Panasonic DA3J103E0L

DA3J103E0L

Silicon epitaxial planar type

For high speed switching circuits
DA3X103E in SMini3 type package



Panasonic	SMini3-F2-B
JEITA	SC-85
Code	—

■ 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

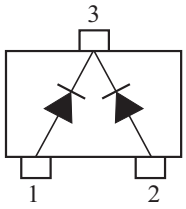
■ Packaging
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ 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
	Double		150	
Peak forward current	Single	IFM	225	mA
	Double		340	
Non-repetitive peak forward surge current *1	Single	IFSM	500	mA
	Double		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

Internal Connection



Established : 2010-02-12
Revised : 2013-06-28

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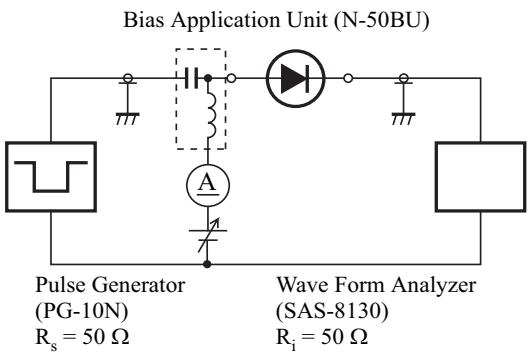
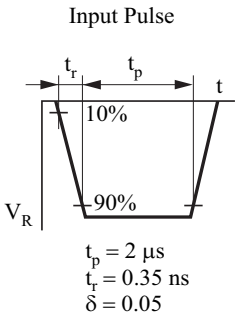
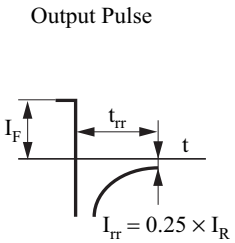
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	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 = 6V Irr = 0.25 x IR		2	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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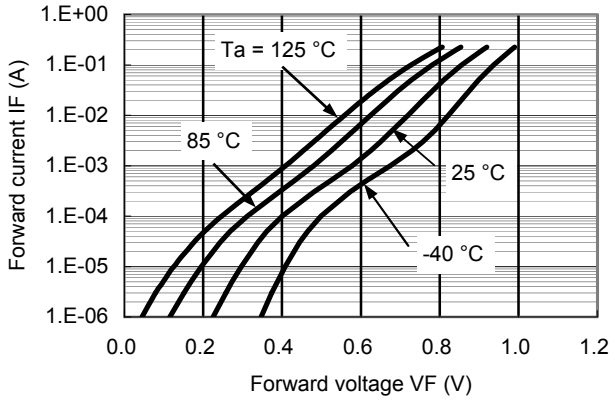
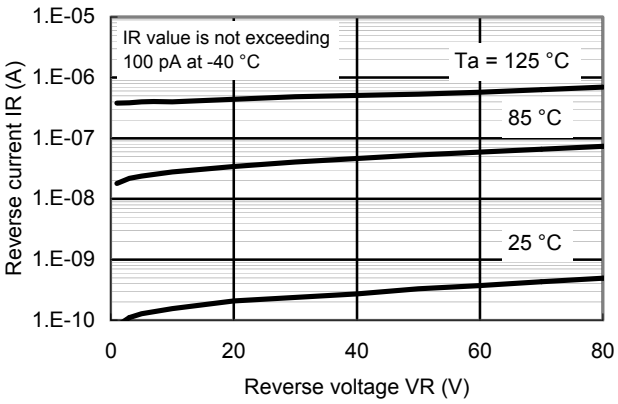
Technical Data (reference)

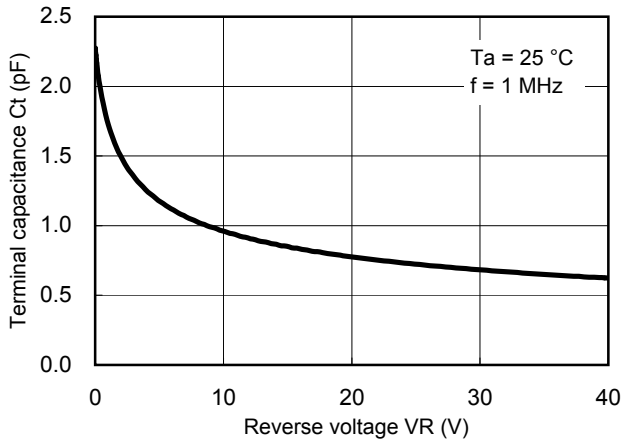
IF - VF



IR - VR



Ct - VR



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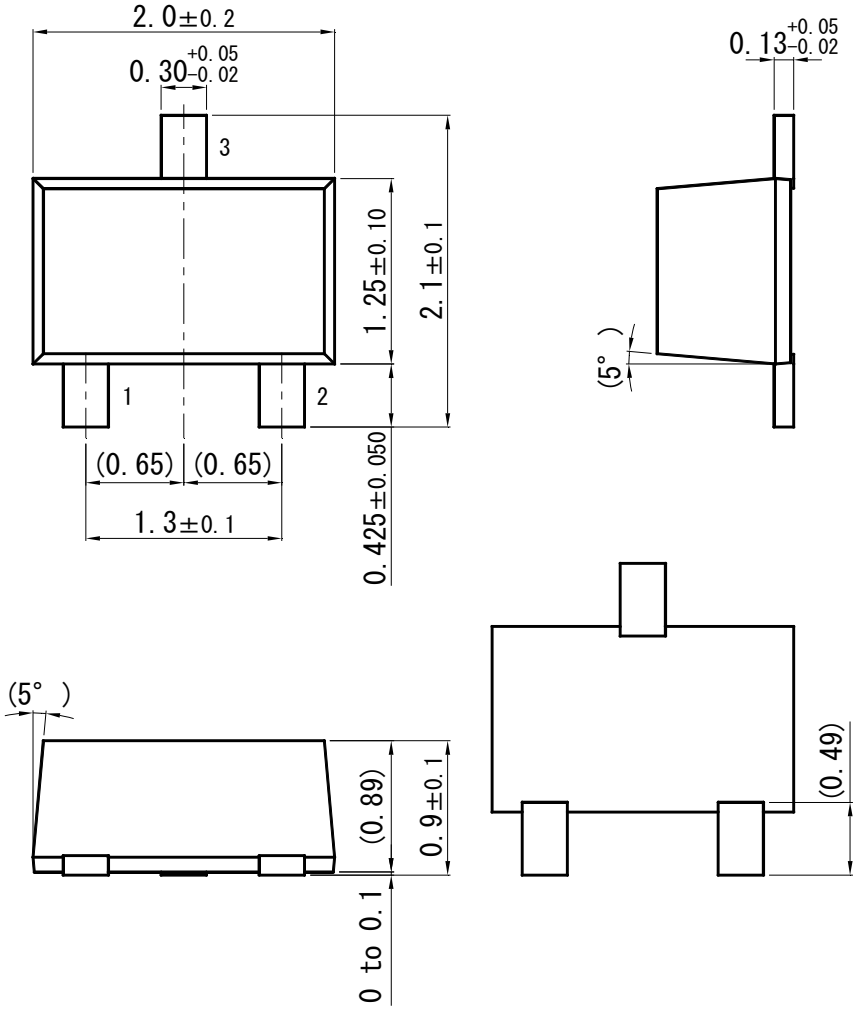
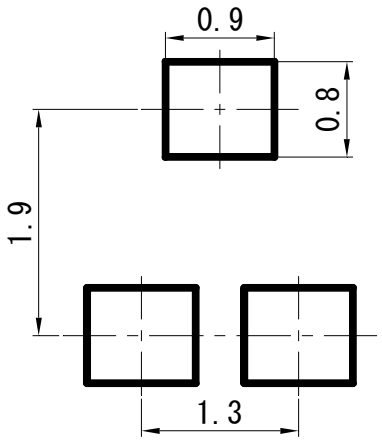
SMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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