Switching Diode

Panasonic DA6X103Q0R

DA6X103Q0R

Silicon epitaxial planar type

For high speed switching circuits

■ Features

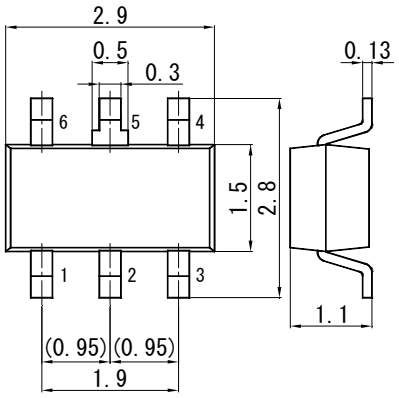
- Short reverse recovery time trr
- Low terminal capacitance Ct
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 24

■ Basic Part Number :
Dual DA3X103E (Individual)

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

Unit: mm



1. Cathode 1,2
2. Anode 3
3. Anode 4
4. Cathode 3,4
5. Anode 2
6. Anode 1

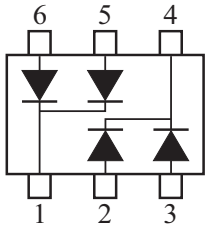
Panasonic	Mini6-G4-B
JEITA	SC-74
Code	SOT-457

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	80	V
Maximum peak reverse voltage	VRM	80	V
Forward current *1	IF	100	mA
Peak forward current *1	IFM	225	mA
Non-repetitive peak forward surge current *1,*2	IFSM	500	mA
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note) *1 Value in single diode used
*2 t = 1 s

Internal Connection



Establishe d : 2010-02-22
Revised : 2013-06-28

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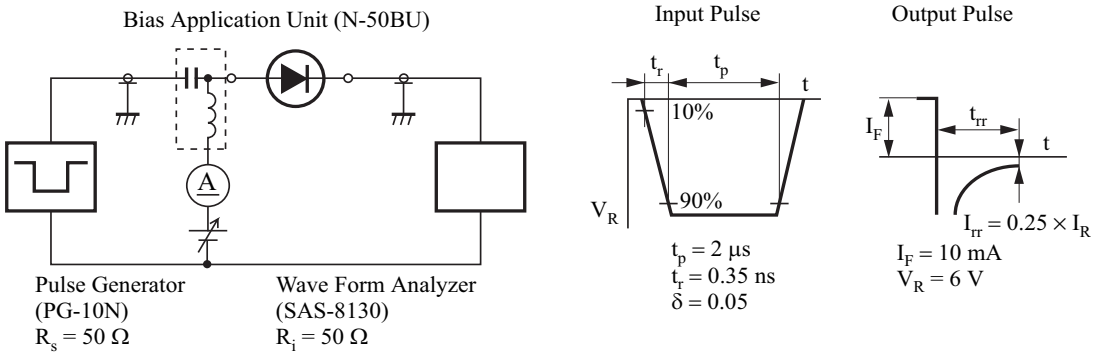
■ Electrical Characteristics Ta = 25 °C ± 3 °C

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 = 6 V 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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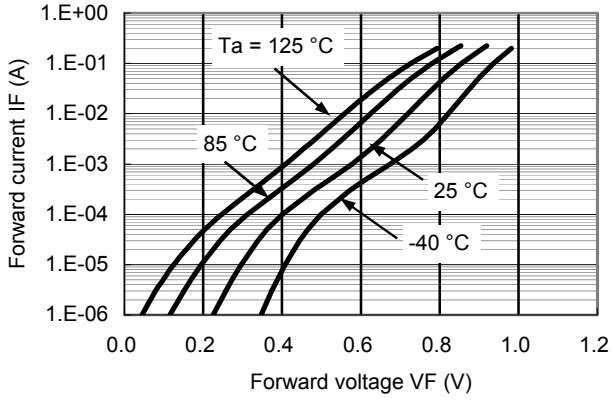
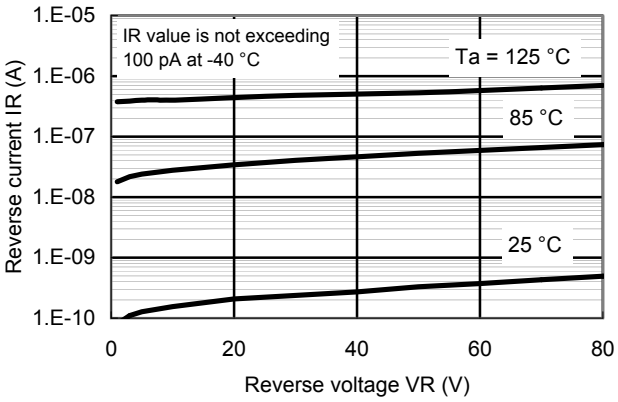
Technical Data (reference)

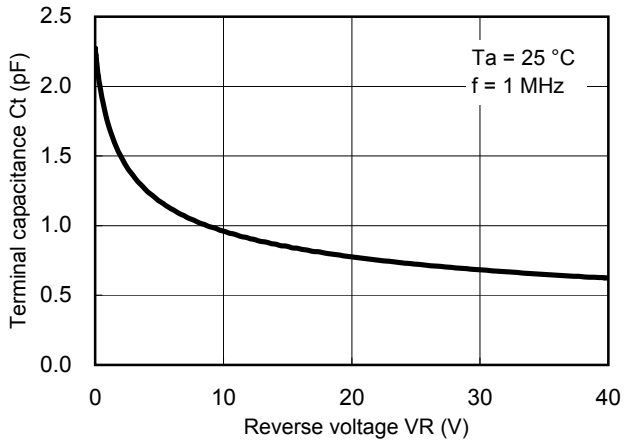
IF - VF



IR - VR



Ct - VR



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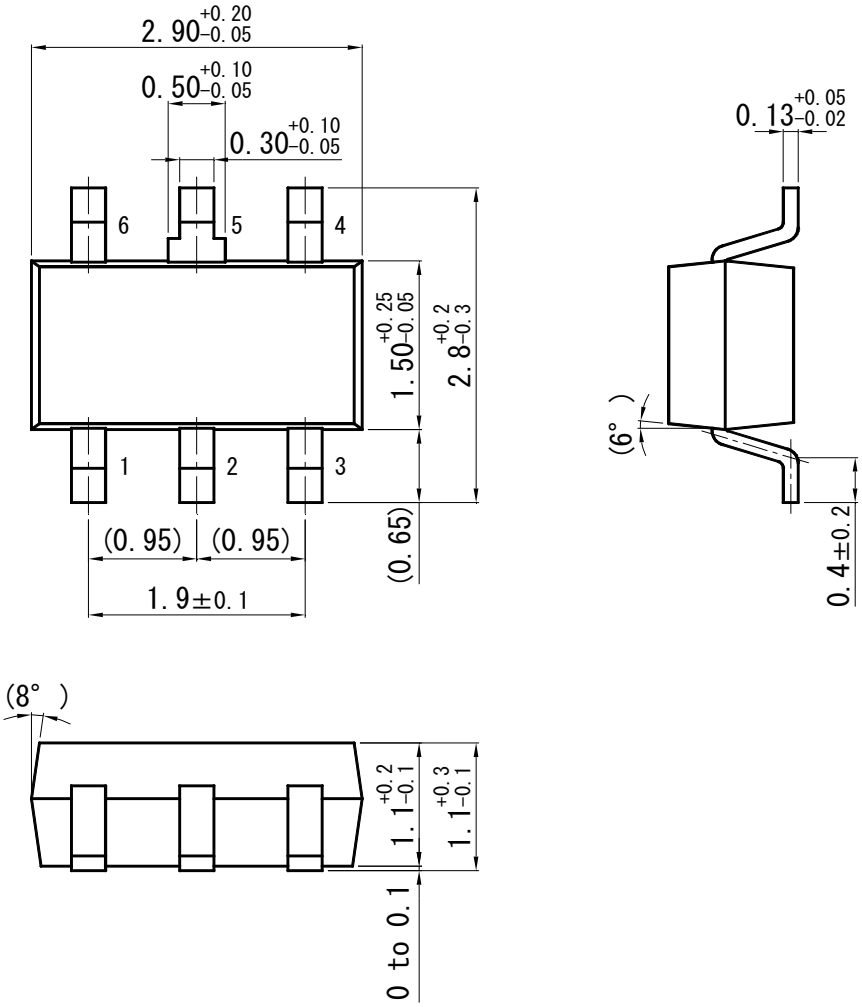
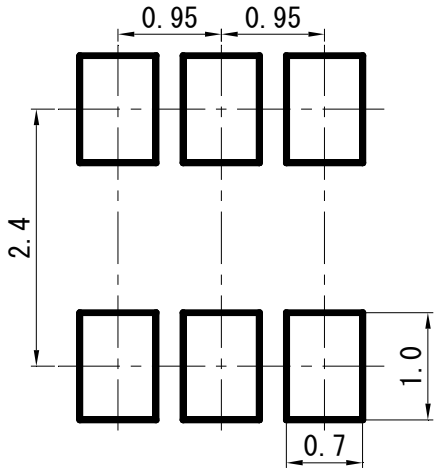
Mini6-G4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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