

Switching Diode DA6X102S0R

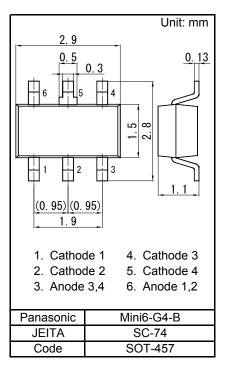
DA6X102S0R Silicon epitaxial planar type

For high speed switching circuits

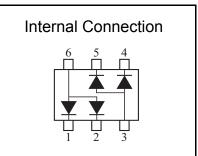
Features

- 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: 30
- Basic Part Number : Dual DA3X102D (Individual)
- Packaging

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



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	С°



Note) *1 Value in single diode used

*2 t=1s

Panasonic

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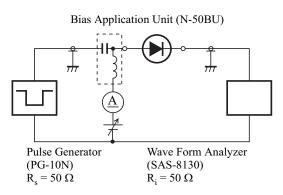
■ Electrical Characteristics Ta = 25 °C ± 3 °C

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 Irr = 0.25 x IR			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

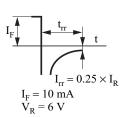




Input Pulse



V_R

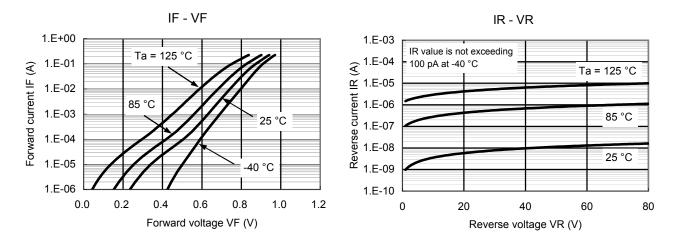


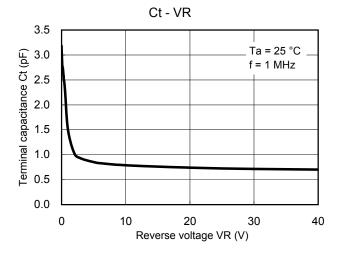
Output Pulse



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Technical Data (reference)



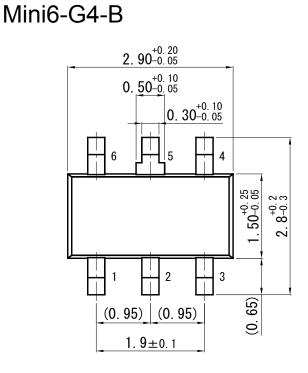


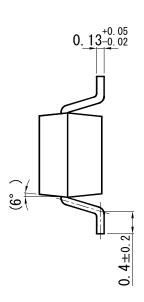
Establishe d : 2010-02-23 Revised : 2013-06-19

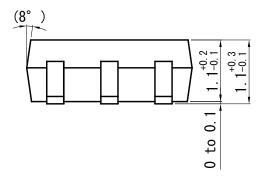


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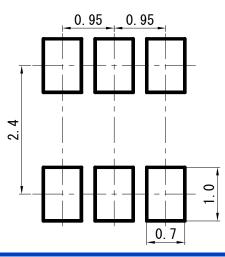
Unit: mm







Land Pattern (Reference) (Unit: mm)



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