

Switching Diode DA3X102D0L

DA3X102D0L Silicon epitaxial planar type

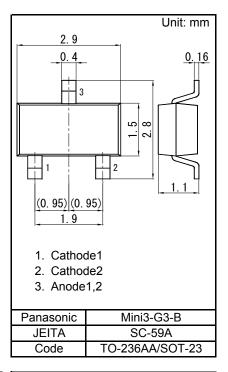
For high speed switching circuits DA3J102D in Mini3 type package

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: 23
- Basic Part Number : 2 elements anode-common type

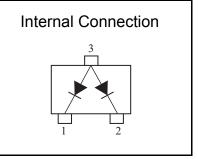
Packaging

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	Single	IFSM	500	mA	
forward surge current *1	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

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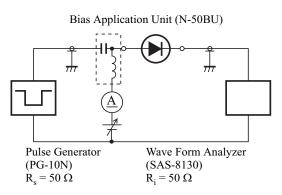
■ Electrical Characteristics Ta = 25 °C ± 3 °C

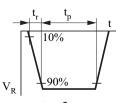
Parameter	Symbol	Conditions	Min	Тур	Max	Unit			
Forward voltage	VF	IF = 100 mA			1.2	V			
Reverse voltage	VR	IR = 100 μA	80			V			
Reverse current	IR	VR = 80 V			100	nA			
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz			15	pF			
Reverse recovery time ^{*1}	trr	IF = 10mA, VR = 6V Irr = 0.25 x IR			10	ns			

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.

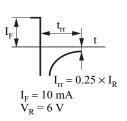
3. *1: trr test circuit





Input Pulse



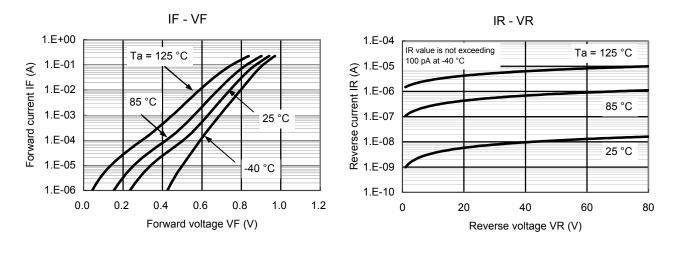


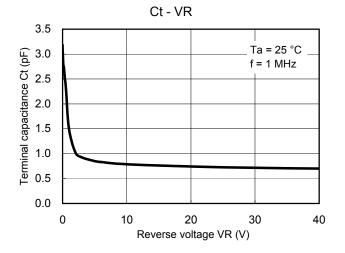
Output Pulse



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Technical Data (reference)





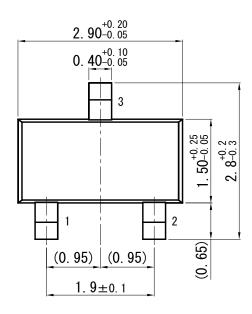
Established : 2010-02-24 Revised : 2013-06-12

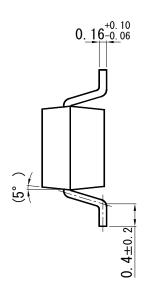


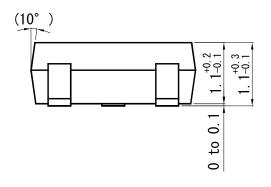
Mini3-G3-B

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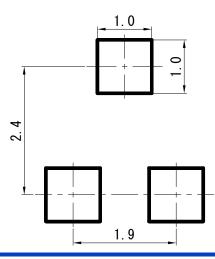
Unit: mm







Land Pattern (Reference) (Unit: mm)



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