imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



DB6X314K

Silicon epitaxial planar type

For high speed switching circuits

Features

- Short reverse recovery time t_{rr}
- Small reverse current I_R
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: 4X

Basic Part Number

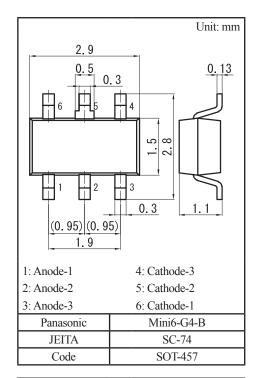
Triple DB2J314 (Parallel)

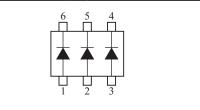
Packaging

DB6X314K0R Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	30	V	
Maximum peak reverse voltage	V _{RM}	30	V	
Fowerd current *1	I _F	30	mA	
Peak forward current *1	I _{FM}	150	mA	
Junction temperature	Tj	125	°C	
Operating ambient temperature	T _{opr}	-40 to +85	°C	
Storage temperature	T _{stg}	-55 to +125	°C	





Note) *1: Value for single diode

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

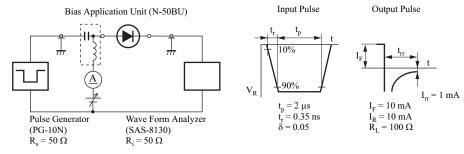
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$			0.4	v
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I _R	$V_R = 30 V$			300	nA
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		1.5		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		1.0		ns

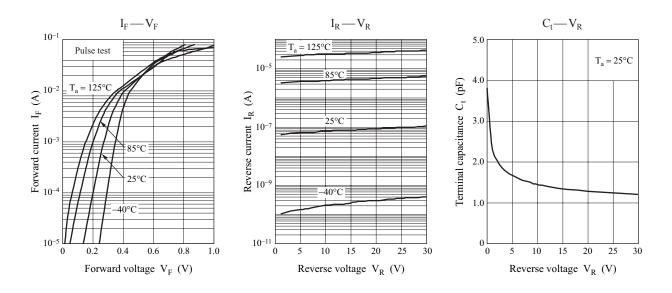
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

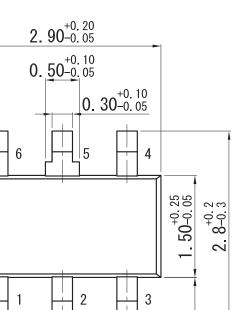
3. Absolute frequency of input and output is 2 GHz

*1: t_{rr} measurement circuit

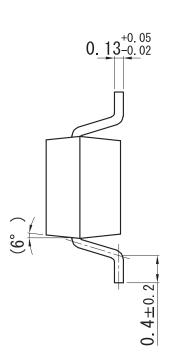


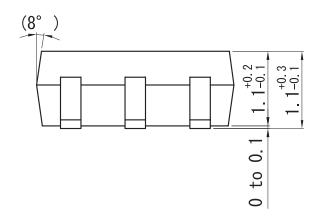


Mini6-G4-B



(0.65)



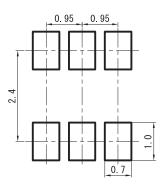


(0.95)

 1.9 ± 0.1

(0.95)

Land Pattern (Reference) (Unit: mm)



Unit: mm

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