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



DB4X313F

Silicon epitaxial planar type

For small current rectification

Features

- \bullet Low forward voltage V_F and small reverse current I_R
- Low terminal capacitance C_t
- Halogen-free / RoHS compliant
- (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

Marking Symbol: 4Q

Basic Part Number

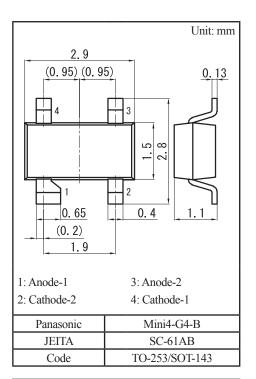
Dual DB2J313 (Parrarel, oppositely arranged)

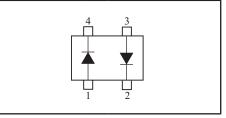
Packaging

DB4X313F0R Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Parameter	Symbol	Rating	Unit		
Reverse voltage		V _R	30	V	
Repetitive peak reverse voltage		V _{RRM}	30	V	
Forward current (Average)	Single	T	200	mA	
	Series	I _{F(AV)}	130		
Peak forward current	Single	т	300	mA	
	Series	I _{FM}	220		
Non-repetitive peak forward surge current *1	Single	T	1.0	А	
	Series	– I _{FSM}	0.7		
Junction temperature		Tj	125	°C	
Operating ambient temperature		T _{opr}	-40 to +85	°C	
Storage temperature	T _{stg}	-55 to +125	°C		

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





Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

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

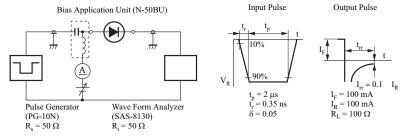
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 200 \text{ mA}$			0.55	V
Reverse current	I _R	$V_R = 30 V$			50	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		3.8		pF
Reverse recovery time *1	t _{rr}	$I_F \!=\! I_R \!=\! 100 \text{ mA}, I_{rr} \!=\! 0.1 \times I_R \text{ , } R_L \!=\! 100 \Omega$		1.5		ns

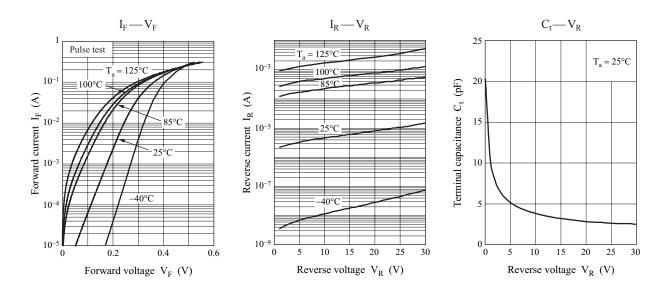
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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 1 GHz

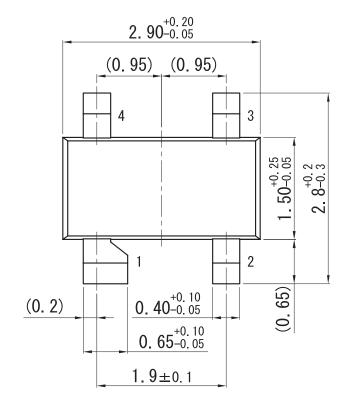
4. *1: t_{rr} measurement circuit

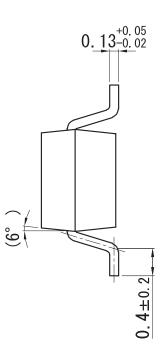


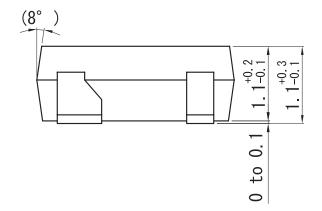


Unit: mm

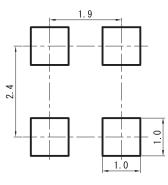
Mini4-G4-B







Land Pattern (Reference) (Unit: mm)



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