# 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.

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### Contact us

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## DB3J315E

#### Silicon epitaxial planar type

For high speed switching circuits DB3X315E in SMini3 type package

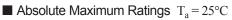
#### Features

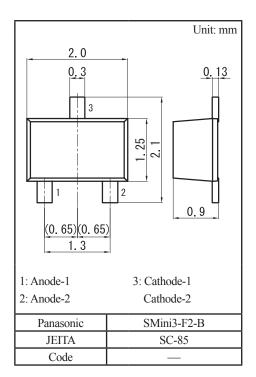
- $\bullet$  Short reverse recovery time  $t_{\rm rr}$
- $\bullet$  Small reverse current  $I_{R}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: 5D

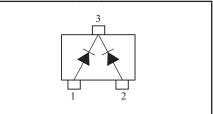
#### Packaging

DB3J315E0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Paramete	Symbol	Rating	Unit		
Reverse voltage	V <sub>R</sub>	30	V		
Maximum peak reverse vo	V <sub>RM</sub>	30	V		
Forward current	Single	T	30	mA	
	Double *1	- I <sub>F</sub>	20		
Peak forward current	Single	T	150	mA	
	Double *1	- I <sub>FM</sub>	110		
Junction temperature	Tj	125	°C		
Operating ambient temper	T <sub>opr</sub>	-40 to +85	°C		
Storage temperature	T <sub>stg</sub>	T <sub>stg</sub> -55 to +125			







Note) \*1: Value of each diode in double diodes used.

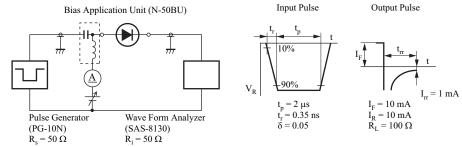
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

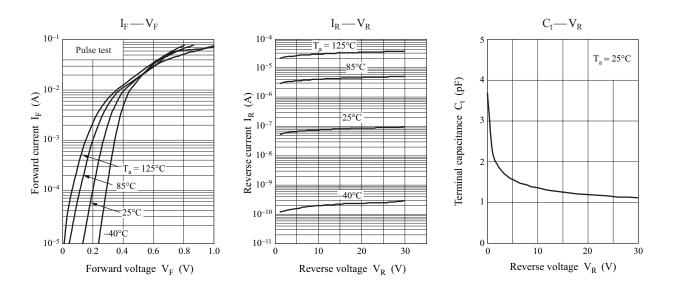
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F1</sub>	$I_F = 1 \text{ mA}$			0.4	V
	V <sub>F2</sub>	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I <sub>R</sub>	$V_R = 30 V$			300	nA
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		1.4		pF
Reverse recovery time *1	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		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.

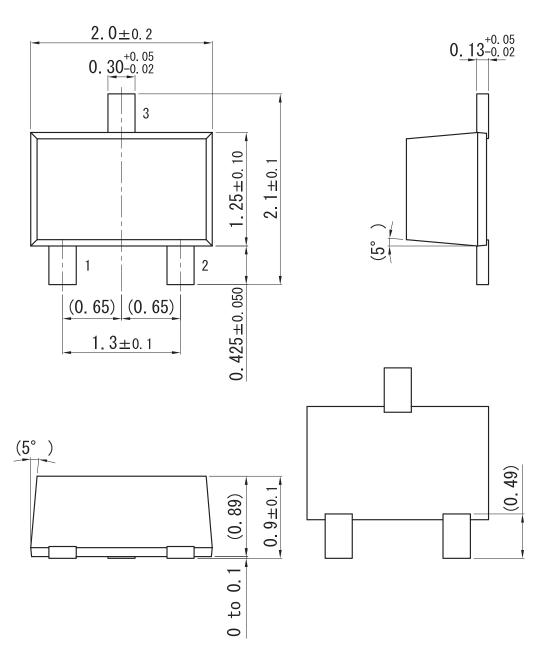
- 3. Absolute frequency of input and output is 2 GHz
- \*1: trr measurement circuit



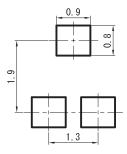


Unit: mm

SMini3-F2-B



Land Pattern (Reference) (Unit: mm)



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