

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!



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DB37315E

Silicon epitaxial planar type

For high speed switching circuits DB3S315E in SSSMini3 type package

■ 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)

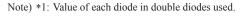
■ Marking Symbol: 5D

Packaging

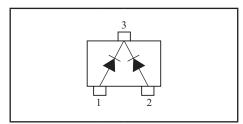
DB37315E0L Embossed type (Thermo-compression sealing): 10 000 pcs / reel (standard)

■ Absolute Maximum Ratings T_a = 25°C

Parameter		Symbol	Rating	Unit	
Reverse voltage		V _R	30	V	
Maximum peak reverse voltage		V _{RM}	30	V	
Forward current	Single	т.	30	mA	
	Double *1	$I_{\rm F}$	20		
Peak forward current	Single	T	150	mA	
	Double *1	I_{FM}	110		
Junction temperature		T _j	125	°C	
Operating ambient temperature		T _{opr}	-40 to +85	°C	
Storage temperature		T _{stg}	-55 to +125	°C	



Unit: mm 1.2 0.3 0.13 3 ∞ Ö 0.2 0.52 (0.4) (0.4)0.8 1: Anode-1 3: Cathode-1 Cathode-2 2: Anode-2 SSSMini3-F2-B Panasonic **JEITA** SC-105AA SOT-723 Code

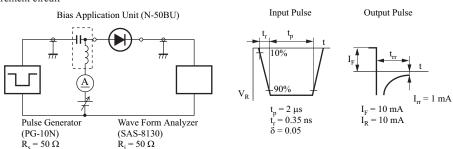


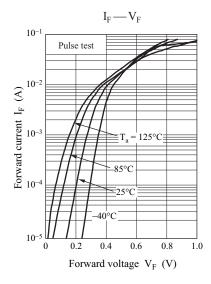
■ Electrical Characteristics $T_a = 25$ °C±3°C

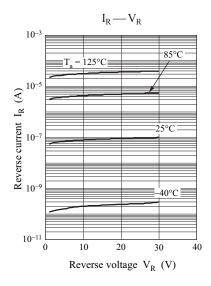
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$			0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			300	nA
Terminal capacitance	C_{t}	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		1.4		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}$		1.0		ns

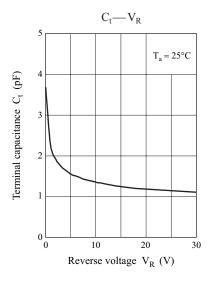
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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





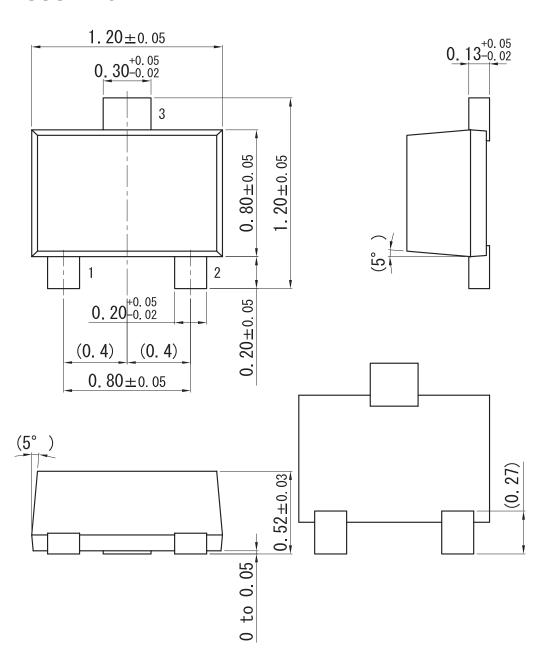




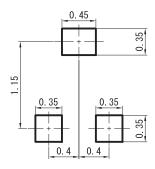
Ver. CED 2

SSSMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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