

DB3S315E

Silicon epitaxial planar type

For high speed switching circuits
DB3J315E in SSMini3 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

DB3S315E0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Maximum peak reverse voltage	V_{RM}	30	V
Forward current	Single	30	mA
	Double *1		
Peak forward current	Single	150	mA
	Double *1		
Junction temperature	T_j	125	$^\circ\text{C}$
Operating ambient temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

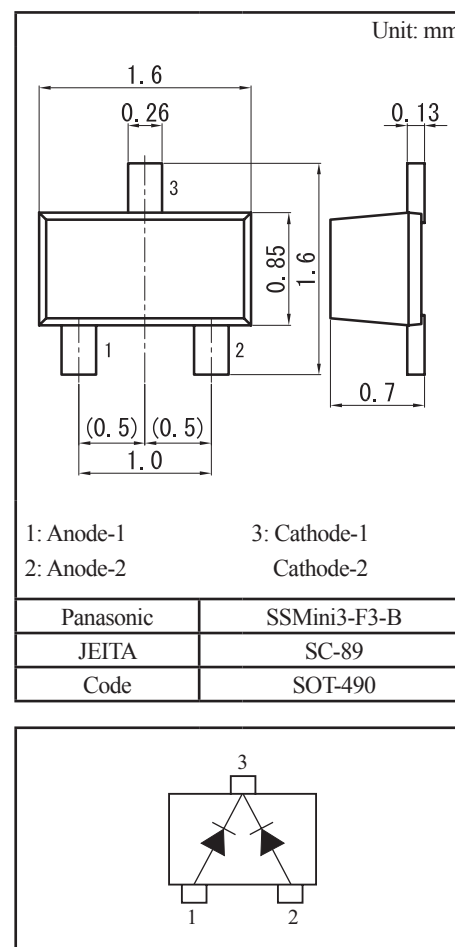
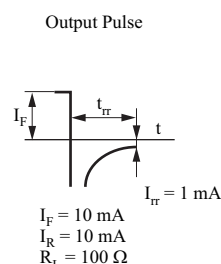
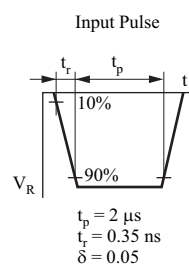
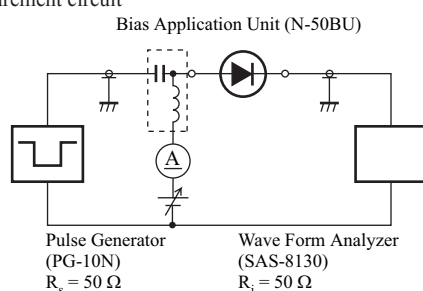
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

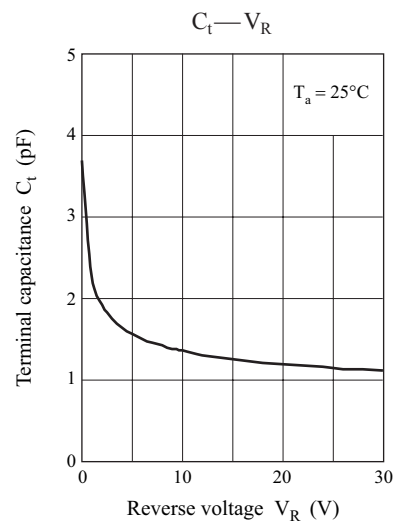
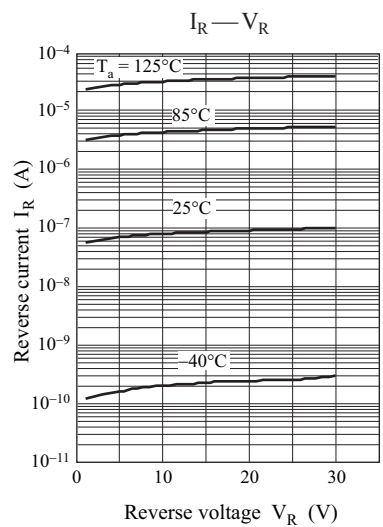
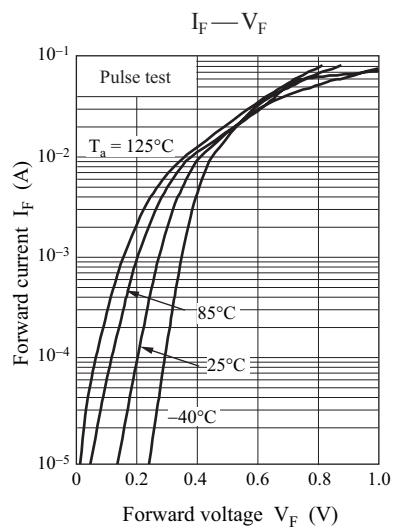
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$			0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			300	nA
Terminal capacitance	C_t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		1.4		pF
Reverse recovery time *1	t_{rr}	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		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

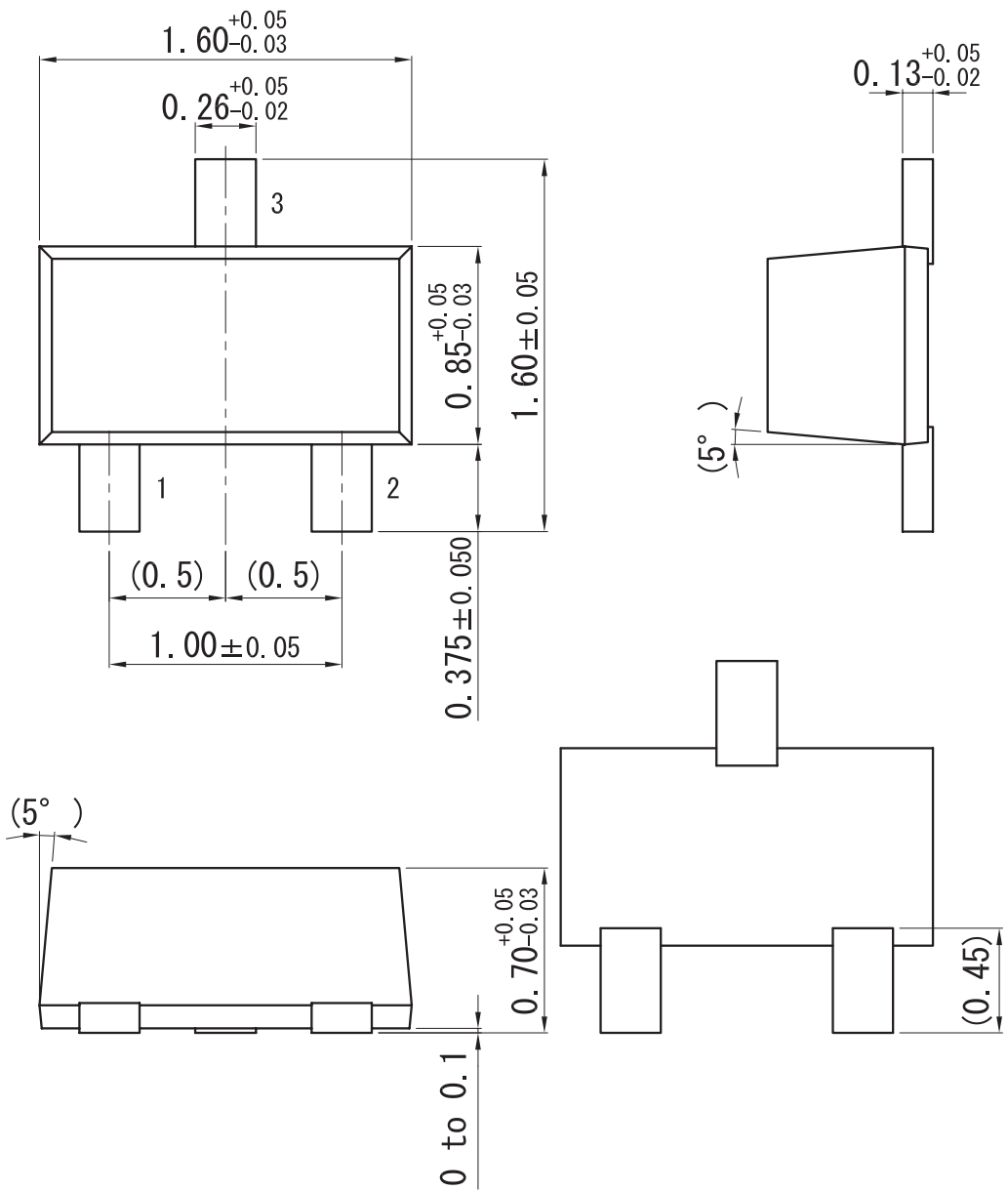
*1: t_{rr} measurement circuit



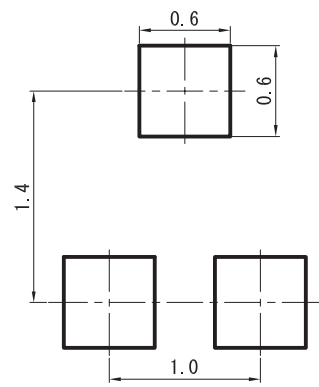


SSMini3-F3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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