



# DB2U31600L

Silicon epitaxial planar type

For small current rectification  
 DB27316 in USSMini2 type package

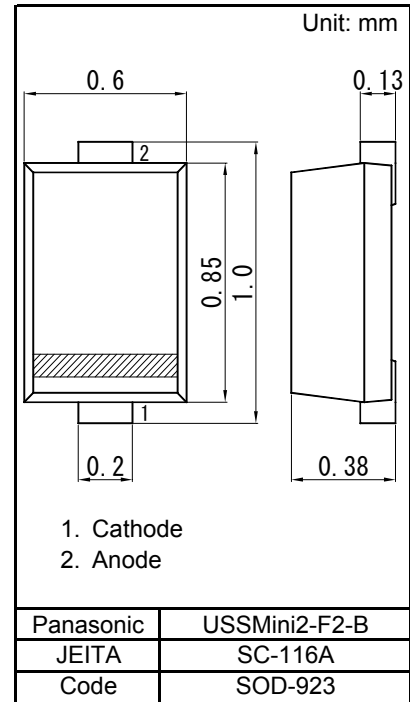
■ Features

- Low forward voltage VF
- Short reverse recovery time trr
- Halogen-free / RoHS compliant  
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 15

■ Packaging

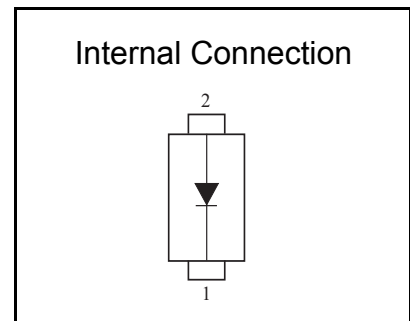
Embossed type (Thermo-compression sealing) : 10 000 pcs / reel (standard)



■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	30	V
Repetitive peak reverse voltage	VRRM	30	V
Forward current (Average)	IF(AV)	100	mA
Peak forward current	IFM	300	mA
Non-repetitive peak forward surge current <sup>*1</sup>	IFSM	1	A
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C

Note: \*1 The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

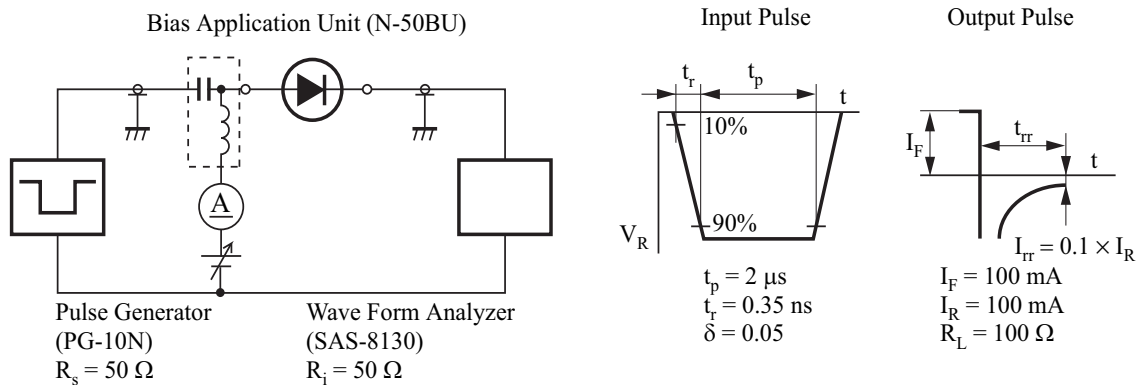




■ Electrical Characteristics  $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

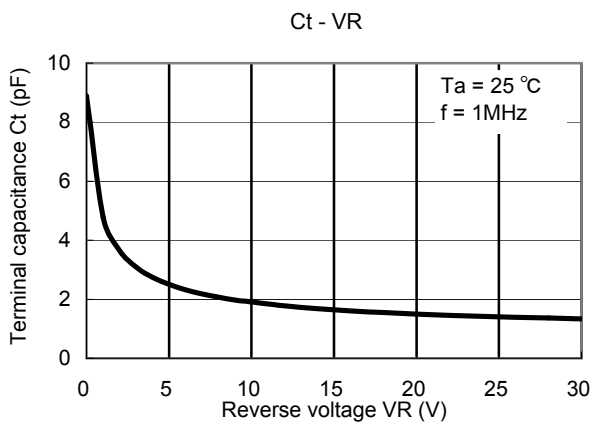
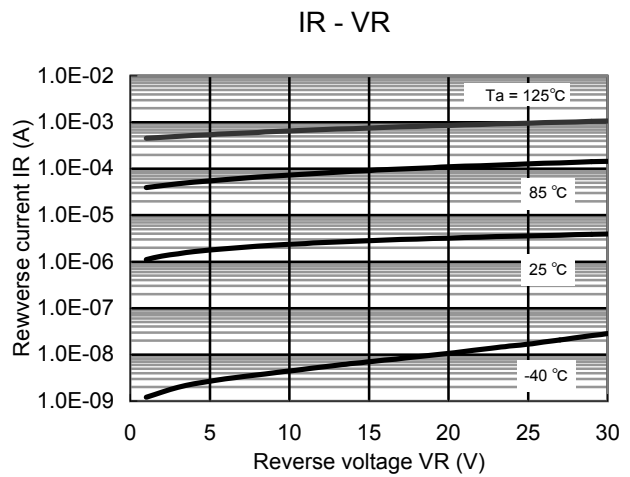
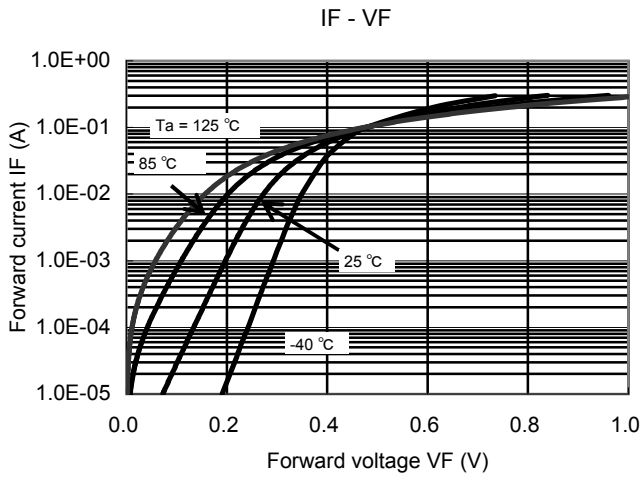
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 100 mA			0.55	V
Reverse current	IR	VR = 30 V			15	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		2		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 0.1 × IR RL = 100 Ω		0.8		ns

- 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 250 MHz.  
 4. \*1 trr test circuit





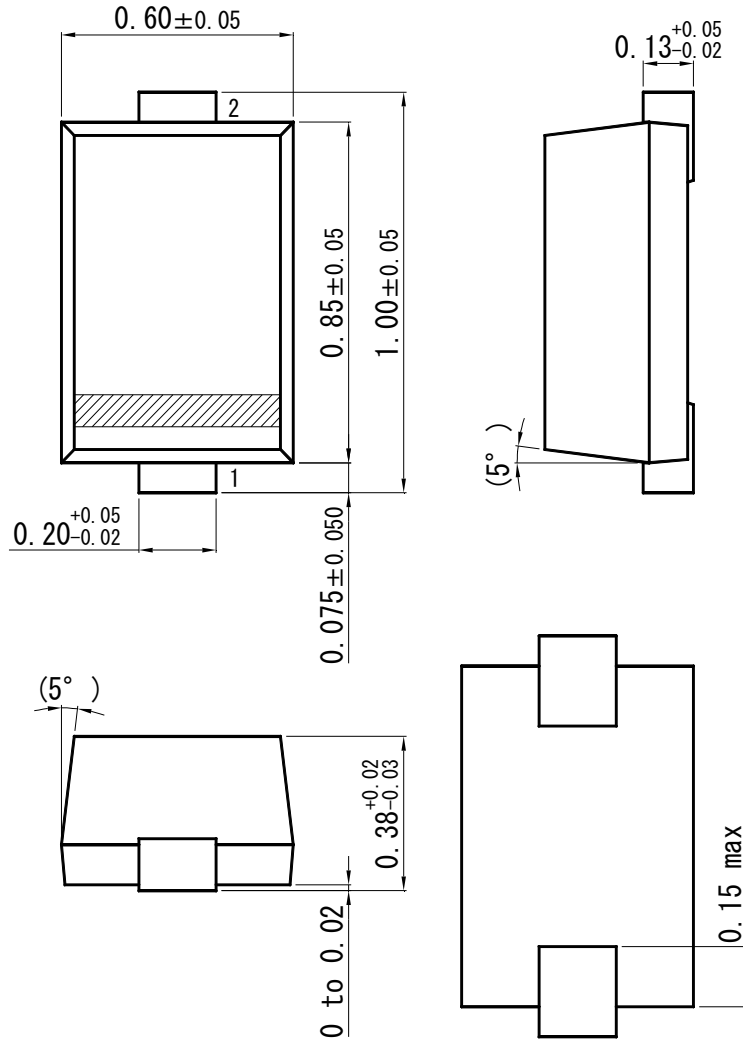
Technical Data ( reference )



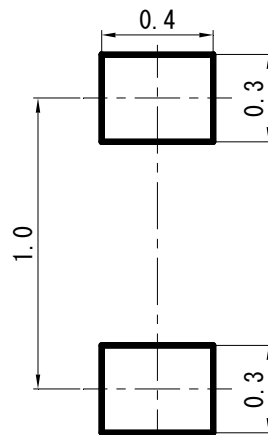


### USSMini2-F2-B

Unit: mm



#### ■ Land Pattern (Reference) (Unit: mm)



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