DB3X314K

Silicon epitaxial planar type

For high speed switching circuits

■ Features

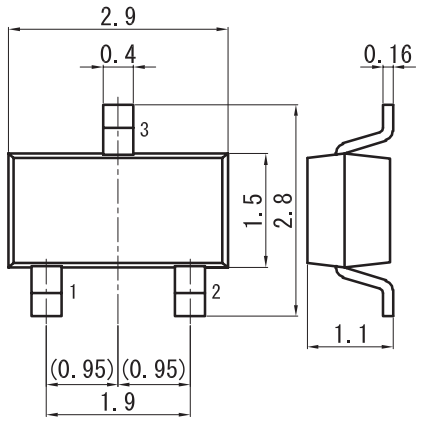
- Short reverse recovery time t_{rr}
- Small reverse current I_R
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 4X

■ Packaging

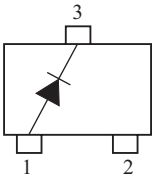
DB3X314K0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Unit: mm



1: Anode
2: N.C.
3: Cathode

Panasonic	Mini3-G3-B
JEITA	SC-59A
Code	TO-236AA/SOT-23



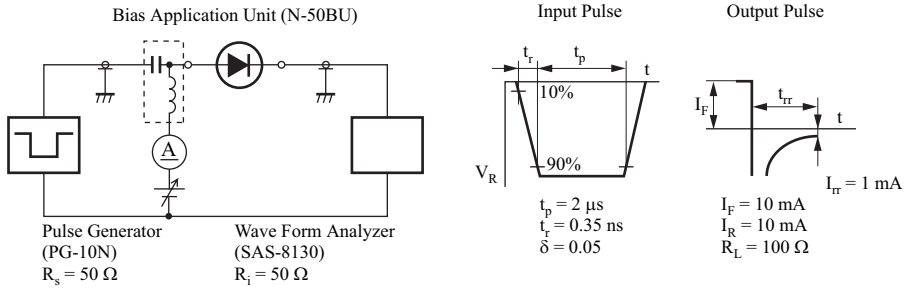
■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Maximum peak reverse voltage	V_{RM}	30	V
Forward current	I_F	30	mA
Peak forward current	I_{FM}	150	mA
Junction temperature	T_j	125	°C
Operating ambient temperature	T_{opr}	–40 to +85	°C
Storage temperature	T_{stg}	–55 to +125	°C

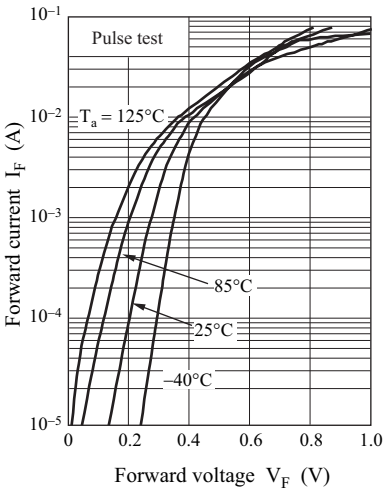
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 1$ mA			0.4	V
	V_{F2}	$I_F = 30$ mA			1.0	
Reverse current	I_R	$V_R = 30$ V			300	nA
Terminal capacitance	C_t	$V_R = 10$ V, f = 1 MHz		1.5		pF
Reverse recovery time *1	t_{rr}	$I_F = I_R = 10$ mA, $I_{rr} = 1$ mA, $R_L = 100\ \Omega$		1.0		ns

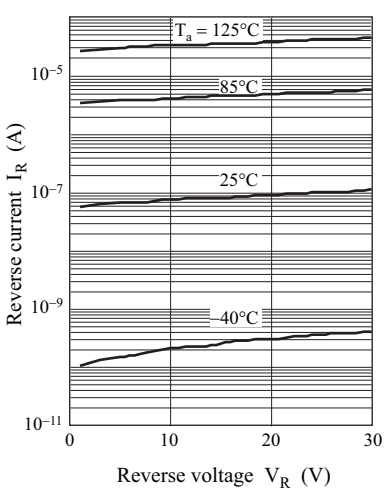
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Absolute frequency of input and output is 2 GHz
*1: t_{rr} measurement circuit



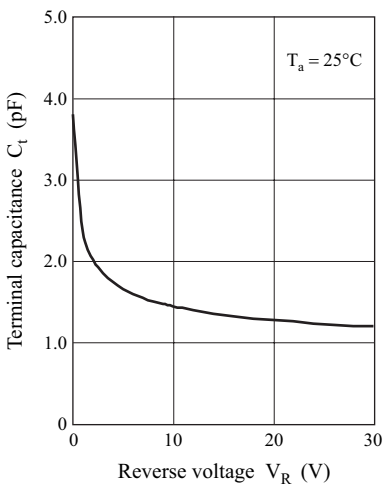
I_F — V_F



I_R — V_R

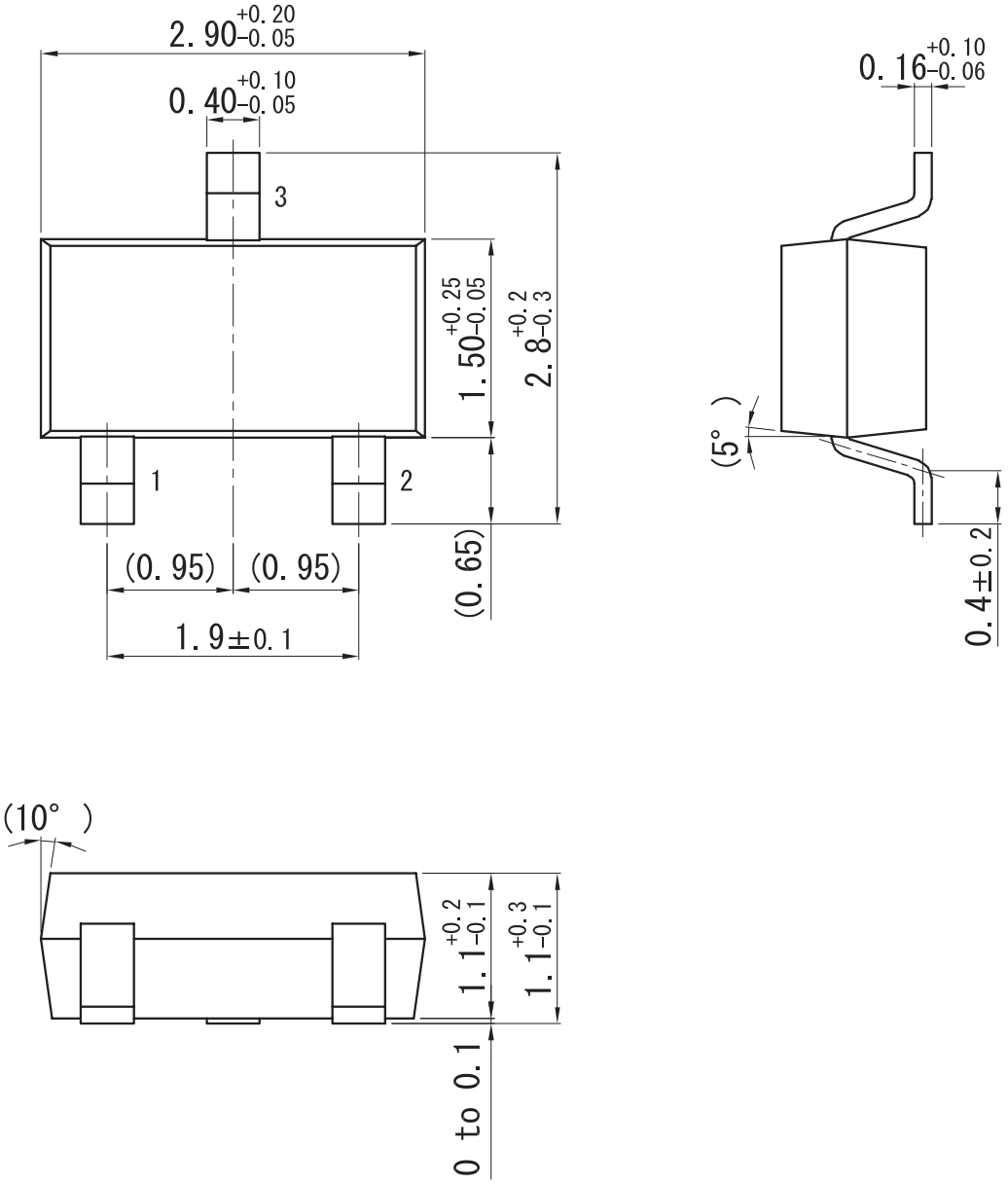


C_t — V_R

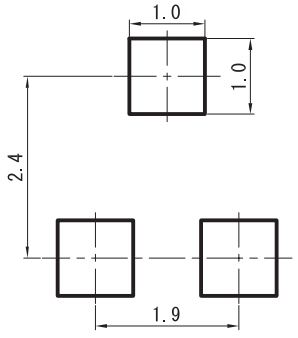


Mini3-G3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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