DB3X316K

Silicon epitaxial planar type

For small current rectification

■ Features

- Short reverse recovery time t_{rr}
- Low forward voltage V_F
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 5E

■ Packaging

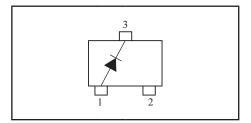
DB3X316K0L Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	30	V	
Repetitive peak reverse voltage	V _{RRM}	30	V	
Forward current (Average)	I _{F(AV)}	100	mA	
Peak forward current	I_{FM}	300	mA	
Non-repetitive peak forward surge current *1	I _{FSM}	1	A	
Junction temperature	T_j	125	°C	
Operating ambient temperature	T _{opr}	-40 to +85	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

Unit: mm 2. 9 0. 4 0. 16 (0. 95) (0. 95) 1: Anode 2: N.C. 3: Cathode Panasonic Panasonic Mini3-G3-B JEITA SC-59A Code TO-236AA/SOT-23

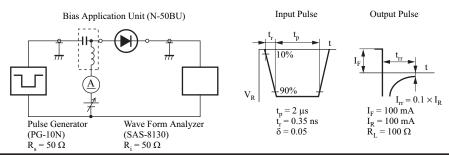


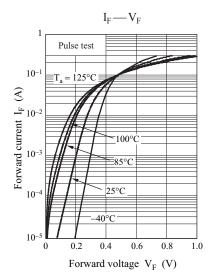
■ Electrical Characteristics $T_a = 25$ °C±3°C

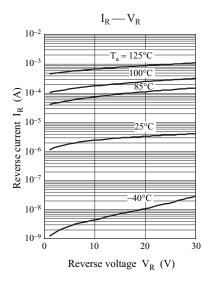
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			15	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		2		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		0.8		ns

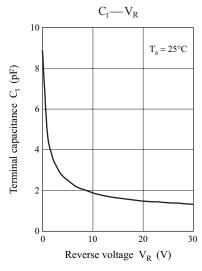
 $Note) \ 1. \ Measuring \ methods \ are \ based \ on \ JAPANESE \ INDUSTRIAL \ STANDARD \ JIS \ C \ 7031 \ measuring \ methods \ for \ diodes.$

- 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 \mbox{MHz}
 - *1: t_{rr} measurement circuit





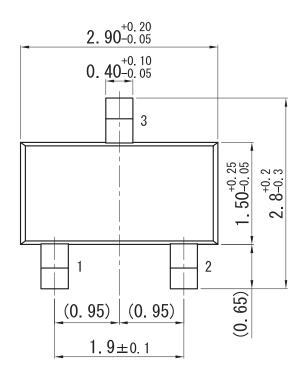


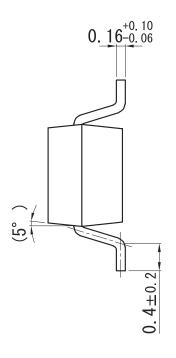


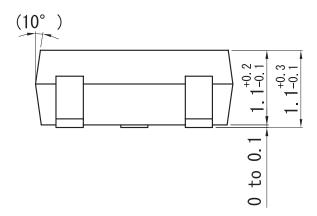
Ver. DED 2

Mini3-G3-B

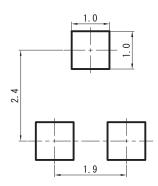
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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