DB3X316K

Silicon epitaxial planar type

For small current rectification

■ Features

- ullet Short reverse recovery time t_{rr}
- Low forward voltage V_F
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 3000 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 *	I_{FSM}	1	A	
Junction temperature	T _j	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

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

■ Package

• Code

Mini3-G3-B

- Pin Name
 - 1: Anode
 - 2: N.C.
 - 3: Cathode

■ Marking Symbol: 5E

■ Internal Connection

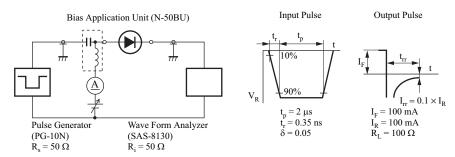


■ Electrical Characteristics $T_a = 25$ °C±3°C

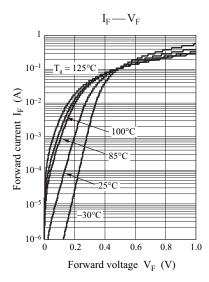
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			15	μΑ
Terminal capacitance	Ct	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		2		pF
Reverse recovery time *	t _{rr}	$ \begin{vmatrix} I_F = I_R = 100 \text{ mA}, I_{rr}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

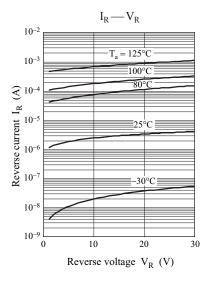
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

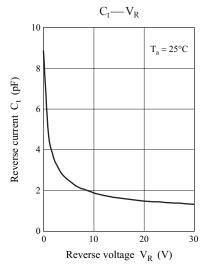
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz
 - *: t_{rr} measurement circuit



DB3X316K Panasonic

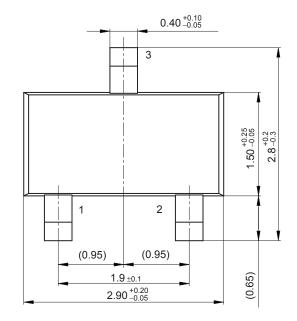


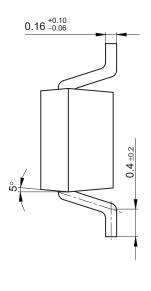


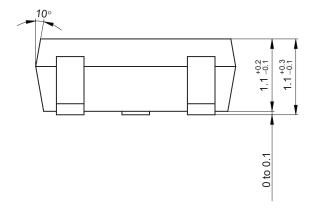


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Mini3-G3-B Unit: mm







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