## **DB2X603**

## Silicon epitaxial planar type

For high speed switching circuits DB3X603K in Mini2 type package

#### ■ Features

- High reverse voltage V<sub>R</sub>
- ullet Small reverse current  $I_R$
- 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

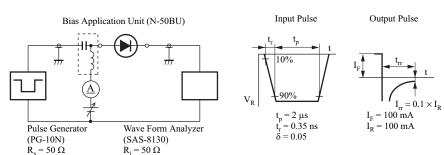
Parameter	Symbol	Rating	Unit	
Reverse voltage	V <sub>R</sub>	60	V	
Repetitive peak reverse voltage	V <sub>RRM</sub>	60	V	
Forward current (Average) *1	I <sub>F(AV)</sub>	500	mA	
Non-repetitive peak forward surge current *2	I <sub>FSM</sub>	2	A	
Junction temperature *1	$T_j$	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

Note) \*1:  $T_1 = 80^{\circ}C$ 

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\mathrm{F}}$	$I_F = 10 \text{ mA}$			0.65	V
Reverse current	$I_R$	$V_R = 5 V$			100	μΑ
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V, } f = 1 \text{ MHz}$		14		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}, I_{rr} = 0.1 \times I_R$		4.5		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 1 GHz
  - 4. \*: t<sub>rr</sub> measurement circuit



#### ■ Package

• Code

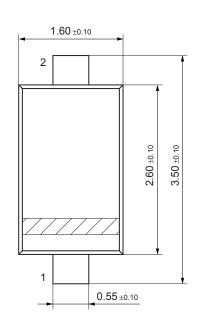
Mini2-F4-B

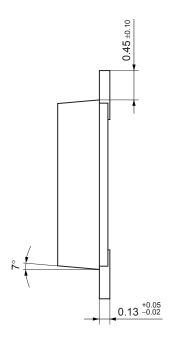
- Pin Name
  - 1: Cathode
  - 2: Anode
- Marking Symbol: A9

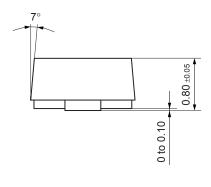
<sup>\*2: 50</sup> Hz sine wave 1 cycle (Non-repetitive peak current)

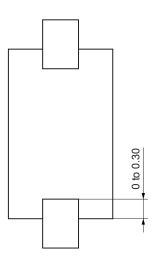
Panasonic DB2X603

Mini2-F4-B Unit: mm









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