DB3X603K

Silicon epitaxial planar type

For high speed switching circuits

Features

- High reverse voltage V_R
- 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 $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	60	V
Maximum peak reverse voltage	V _{RM}	60	V
Forward current (Average)	I _{F(AV)}	500	mA
Non-repetitive peak forward surge current *	I _{FSM}	2	А
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

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

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

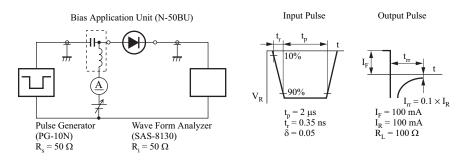
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 500 \text{ mA}$			0.65	V
Reverse current	I _R	$V_R = 50 V$			100	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		14		pF
Reverse recovery time *	t _{rr}	$\begin{split} I_F = I_R = 100 \text{ mA}, \ I_{rr} = 0.1 \times I_R, \\ R_L = 100 \ \Omega \end{split}$		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

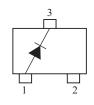
*: t_{rr} measurement circuit





- Code
- Mini3-G3-B
- Pin Name
- 1: Anode 2: N.C.
- 3: Cathode
- Marking Symbol: 5L

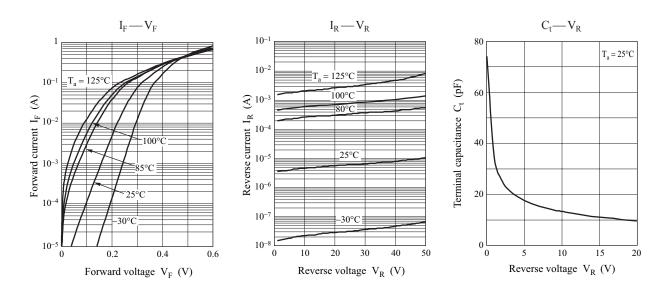
Internal Connection



1

DB3X603K

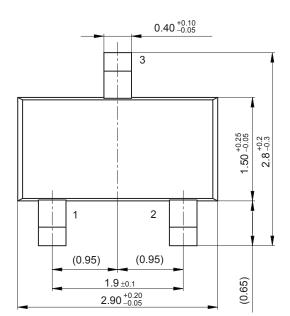
Panasonic

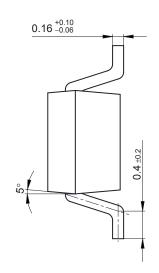


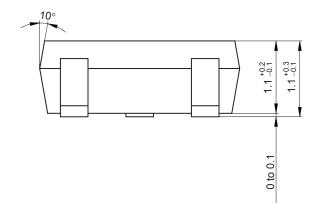
Panasonic

Mini3-G3-B

Unit: mm







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