



## BAS16

Silicon epitaxial planar type

For high speed switching circuits  
 Panasonic parts No. DA3Y101K

### ■ Features

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

### ■ Marking Symbol: A6

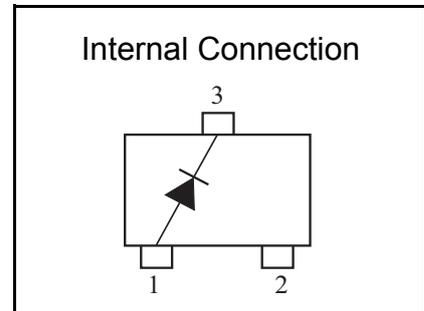
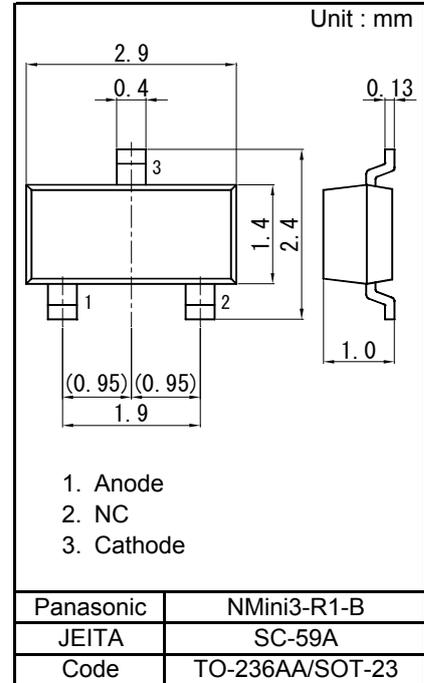
### ■ Packaging

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

### ■ Absolute Maximum Ratings $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	80	V
Maximum peak reverse voltage	$V_{RM}$	80	V
Forward current	$I_F$	200	mA
Non-repetitive peak forward surge current <sup>*1</sup>	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	$^\circ\text{C}$
Operating ambient temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

Note) \*1  $t = 1\text{ s}$

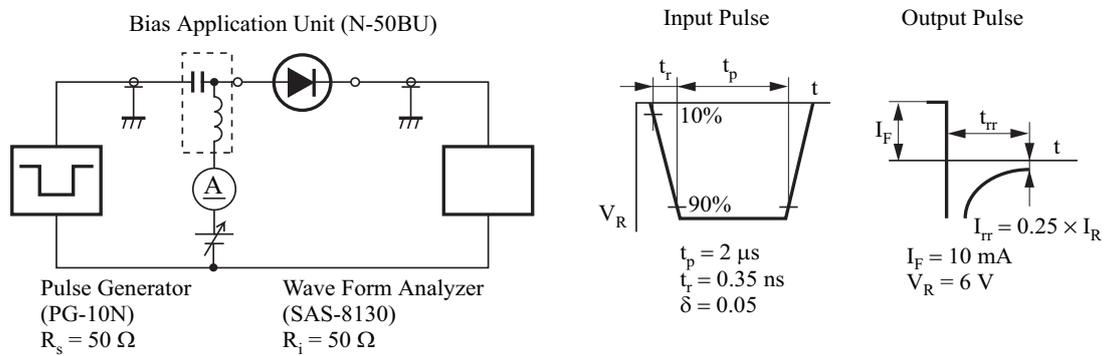




■ Electrical Characteristics  $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

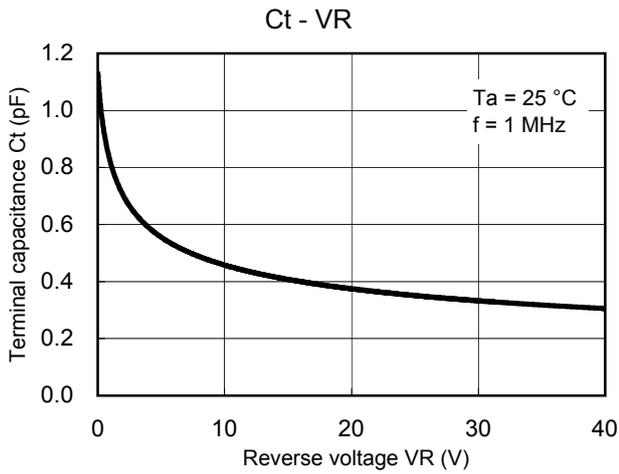
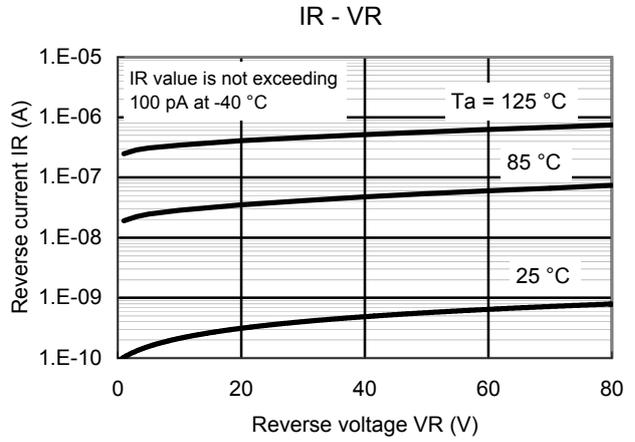
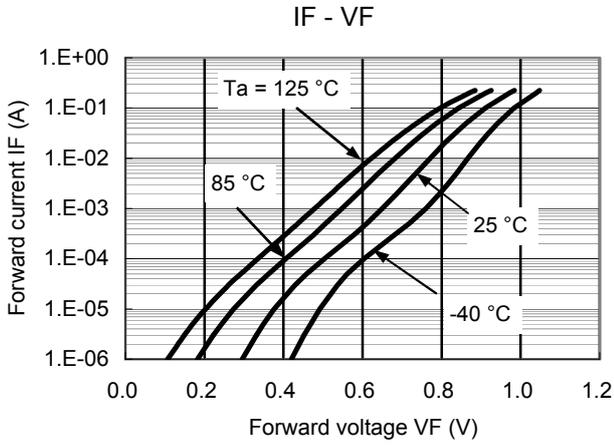
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 150 mA			1.25	V
Reverse voltage	VR	IR = 100 $\mu$ A	80			V
Reverse current	IR	VR = 80 V			100	nA
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz			1.2	pF
Reverse recovery time *1	trr	IF = 10 mA, VR = 6 V Irr = 0.25 $\times$ IR			3	ns

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.  
 2. Absolute frequency of input and output is 100 MHz.  
 3. \*1 trr test circuit





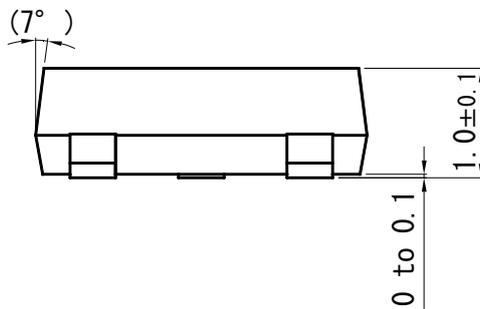
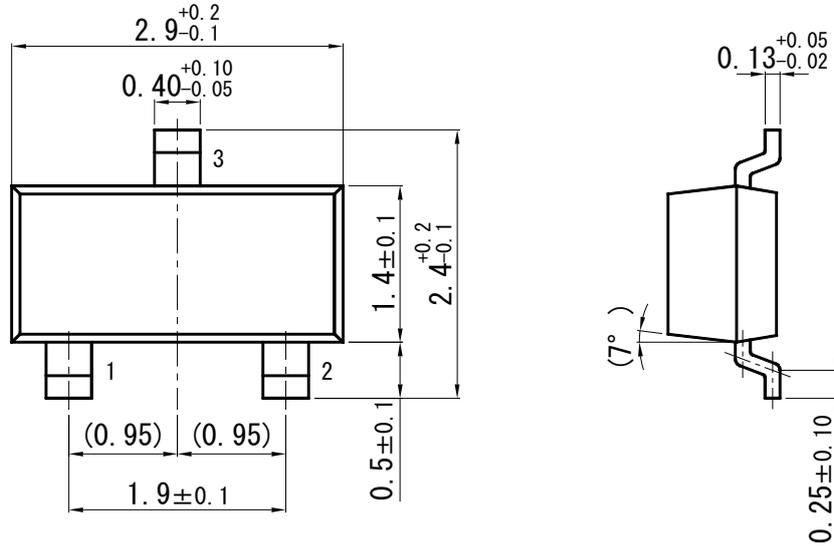
Technical Data ( reference )



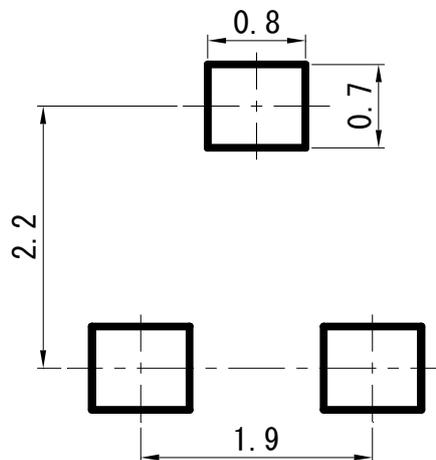


NMini3-R1-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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