



DB3X317K0L

Silicon epitaxial planar type

For high frequency rectification

■ Features

- Low forward voltage V_F
- Forward current (Average) $I_F(AV) = 1$ A rectification is possible
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 5R

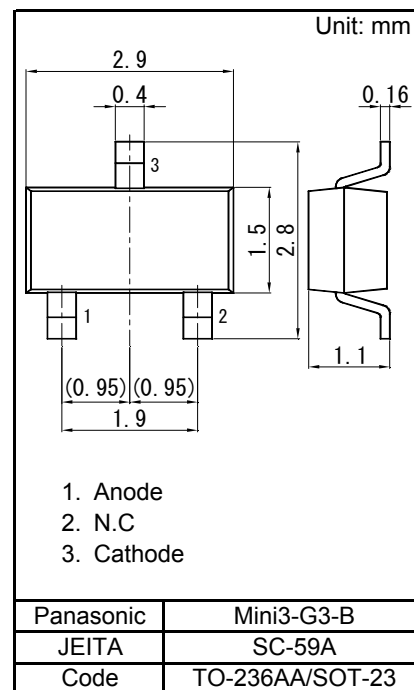
■ Packaging

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

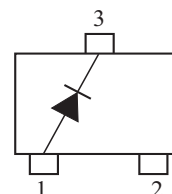
■ Absolute Maximum Ratings $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Repetitive peak reverse voltage	V_{RRM}	30	V
Forward current (Average)	$I_F(AV)$	1	A
Non-repetitive peak forward surge current ^{*1}	I_{FSM}	5	A
Junction temperature	T_j	125	$^{\circ}\text{C}$
Operating ambient temperature	T_{opr}	-40 to +85	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^{\circ}\text{C}$

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



Internal Connection

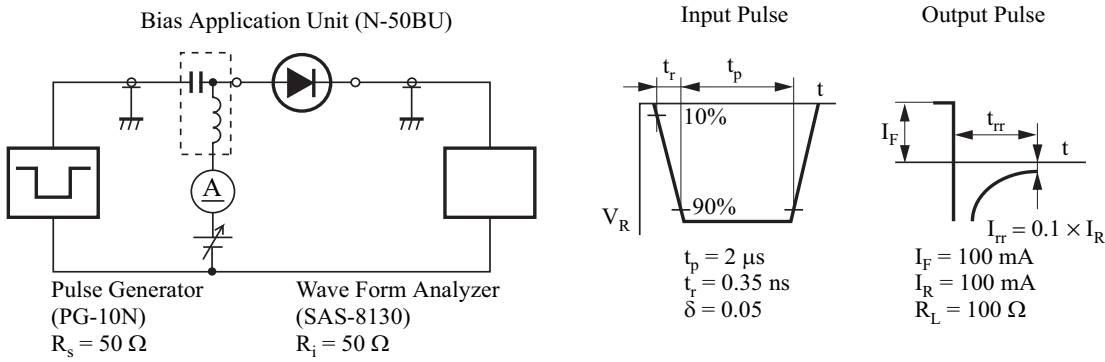




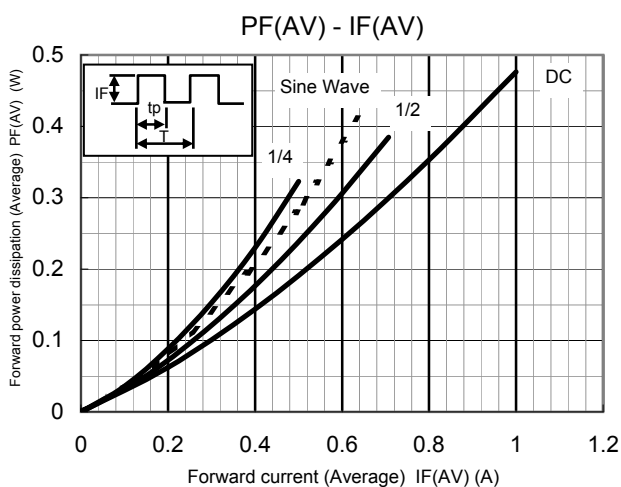
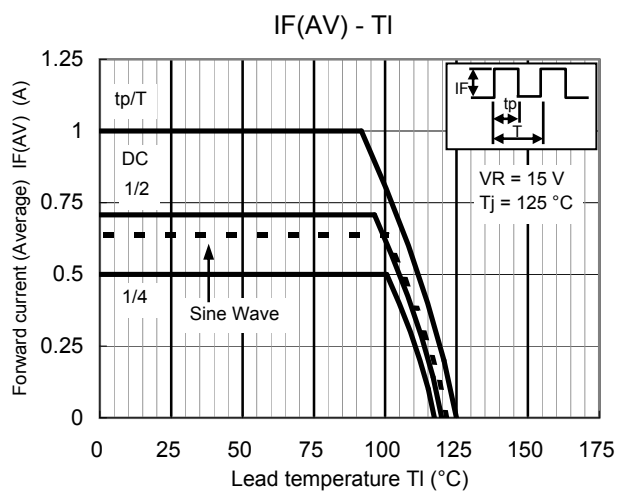
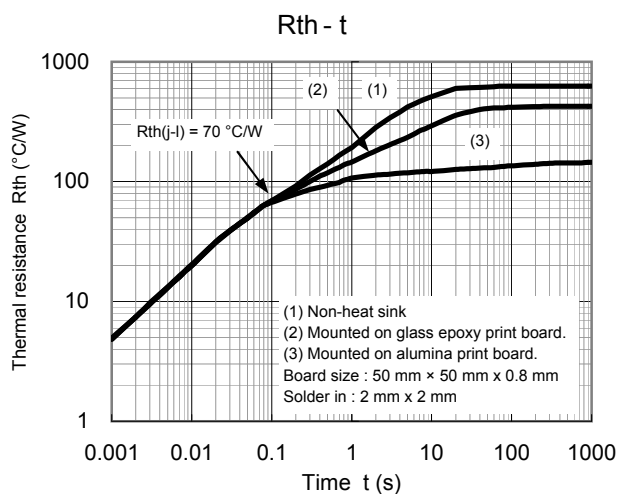
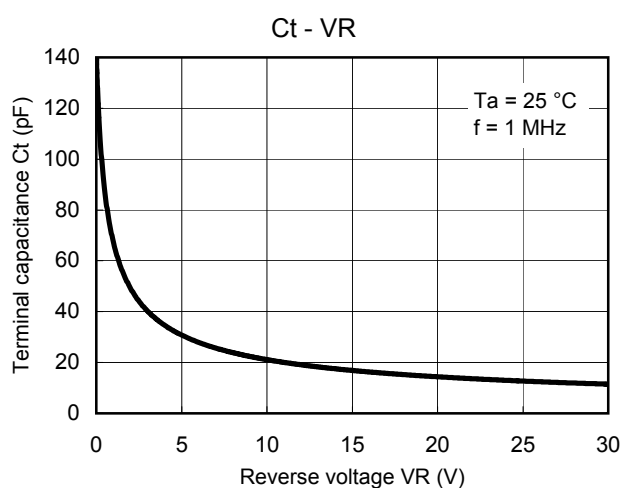
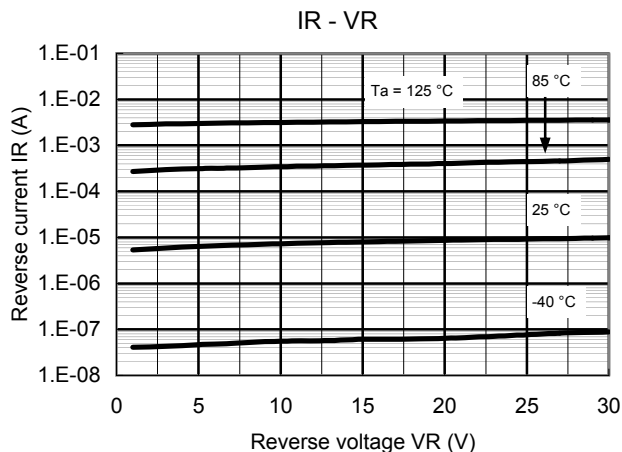
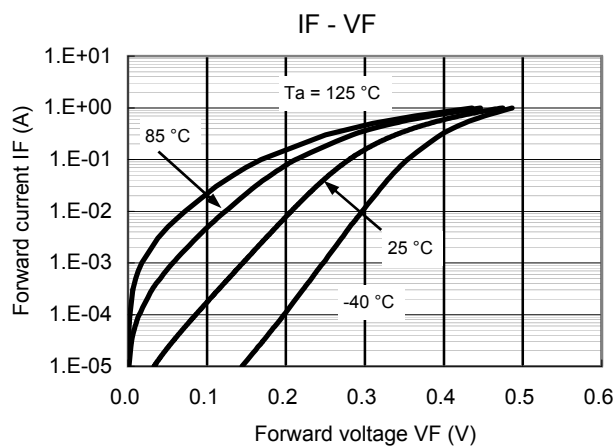
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 700 mA		0.41	0.48	V
	VF2	IF = 1 A		0.46	0.52	V
Reverse current	IR	VR = 30 V		10	100	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		22		pF
Reverse recovery time *1	trr	IF = IR = 100 mA Irr = 0.1 × IR, RL = 100 Ω		7.8		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. *1 trr test circuit



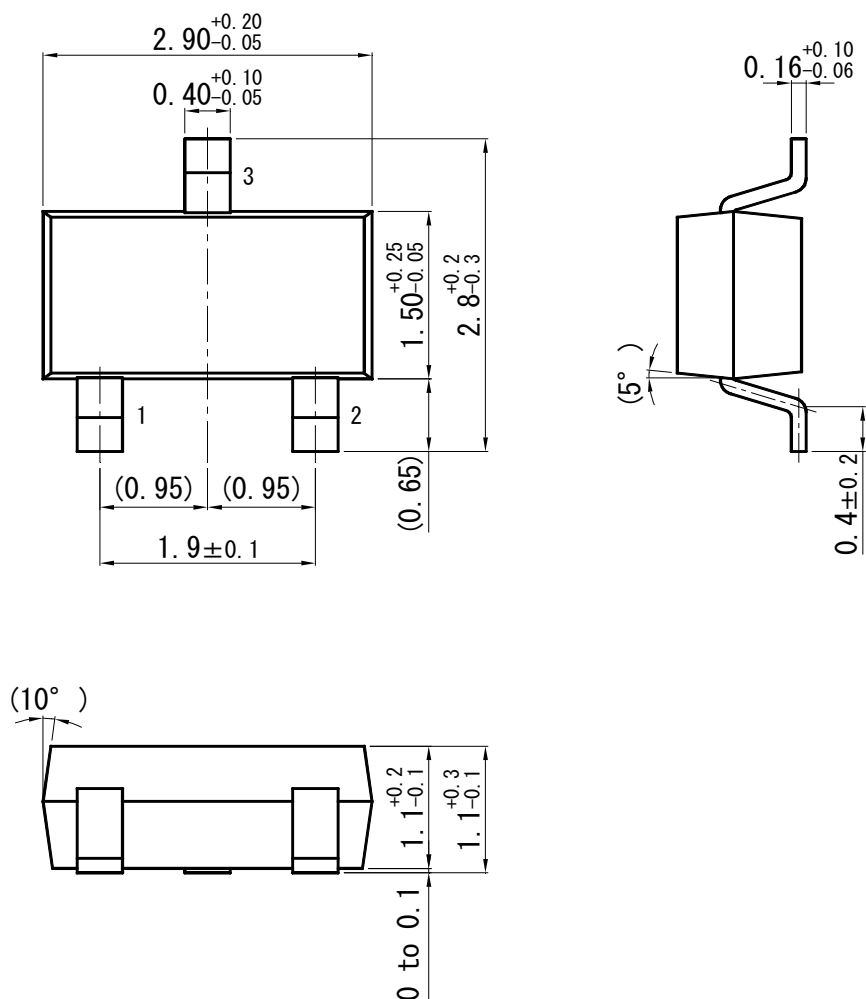
Technical Data (reference)



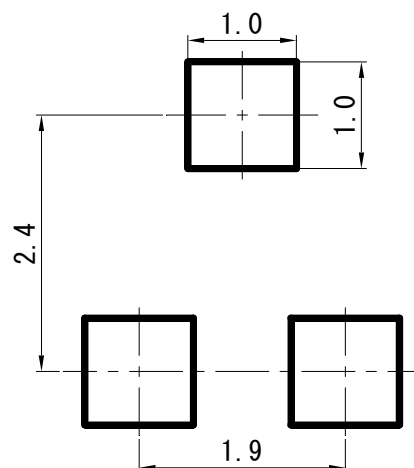
Panasonic

Mini3-G3-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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