



DA6X103T0R

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- Short reverse recovery time t_{rr}
- Low terminal capacitance C_t
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: 31

■ Basic Part Number :

Dual DA3X103E (Individual)

■ Packaging

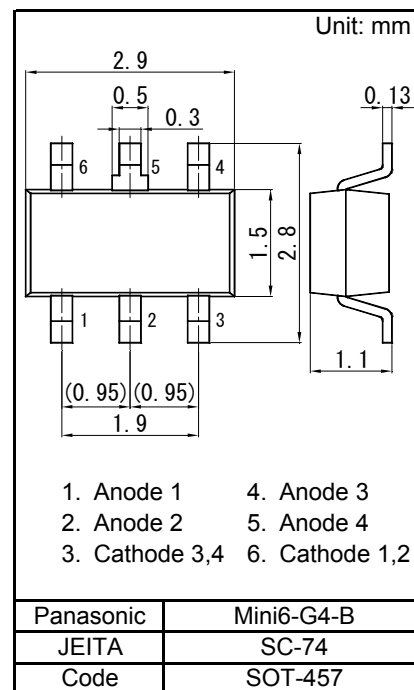
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

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

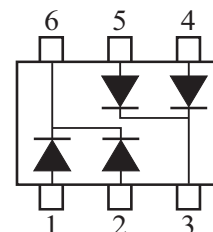
Parameter	Symbol	Rating	Unit
Reverse voltage	VR	80	V
Maximum peak reverse voltage	VRM	80	V
Forward current ^{*1}	IF	100	mA
Peak forward current ^{*1}	IFM	225	mA
Non-repetitive peak forward surge current ^{*1,*2}	IFSM	500	mA
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note) ^{*1} Value in single diode used

^{*2} $t = 1\text{ s}$



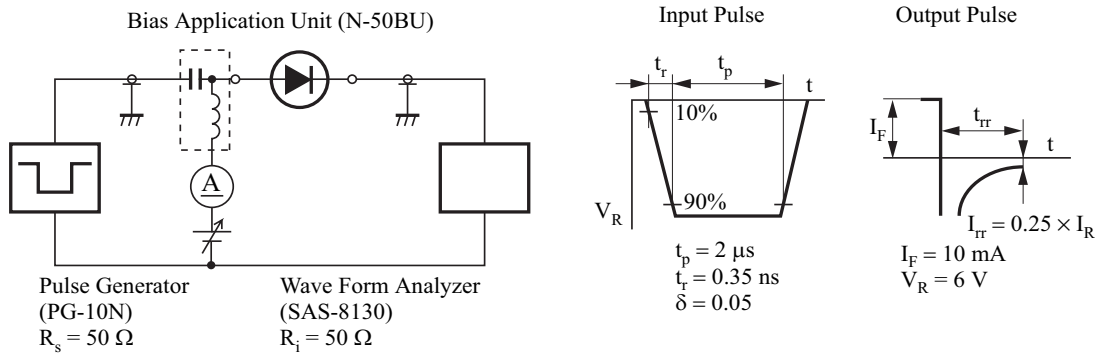
Internal Connection



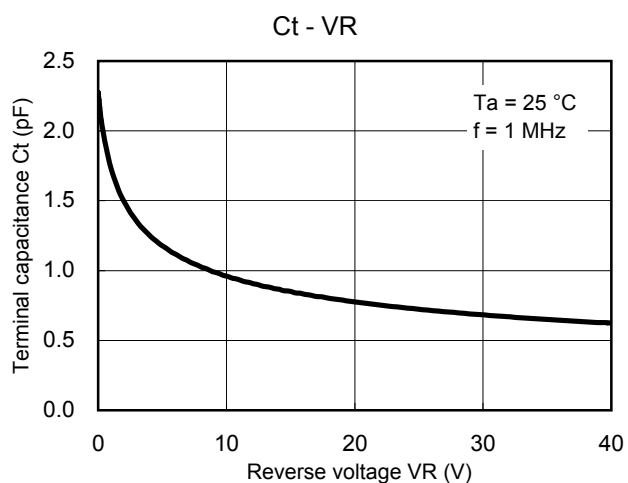
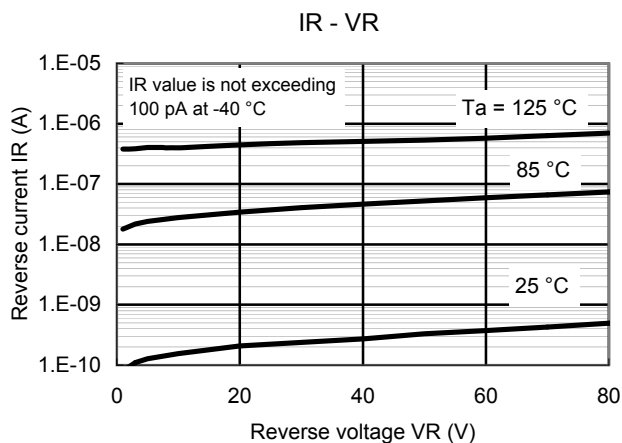
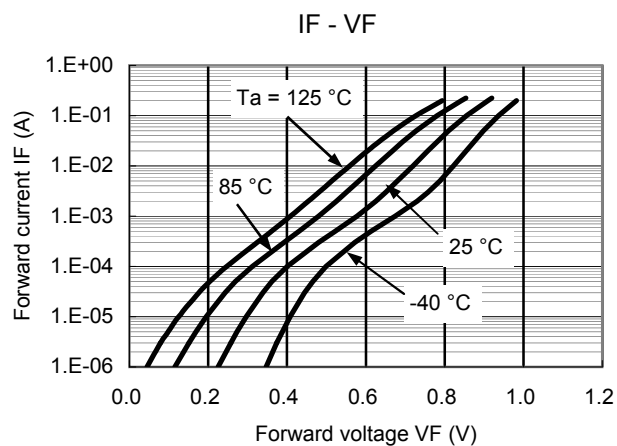
■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 100 mA			1.2	V
Reverse voltage	VR	IR = 100 μA	80			V
Reverse current	IR	VR = 80 V			100	nA
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		2	15	pF
Reverse recovery time *1	trr	IF = 10 mA, VR = 6 V Irr = 0.25 x IR		2	10	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



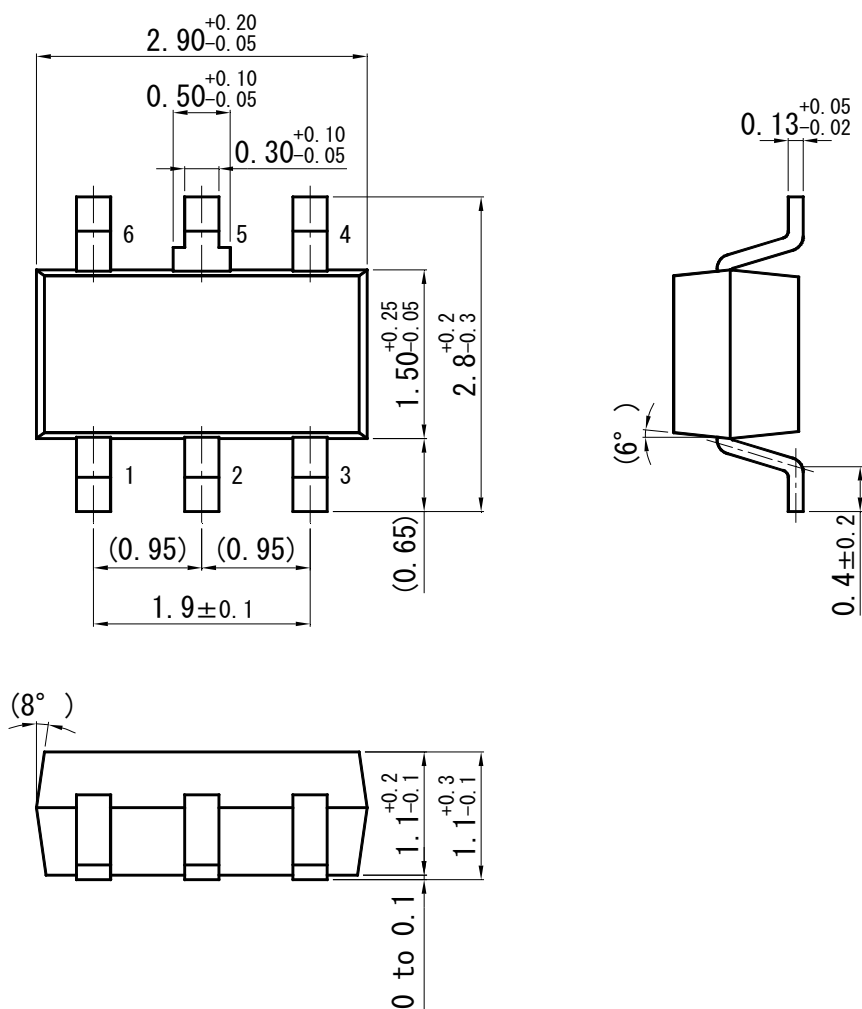
Technical Data (reference)



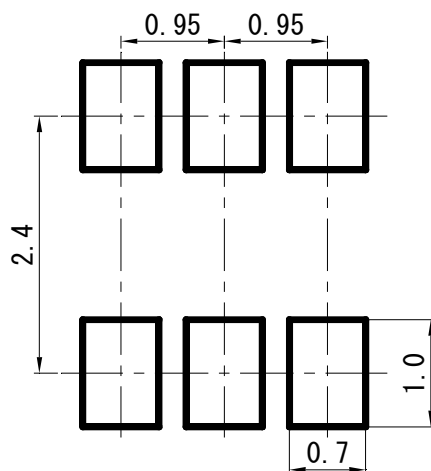
Panasonic

Mini6-G4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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