Panasonic

DB2X41500L

Silicon epitaxial planar type

For frequency rectification

■ Features

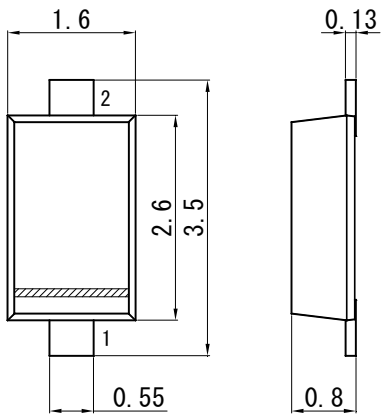
- Low forward voltage VF
- Forward current (Average) IF(AV) = 3 A rectification is possible
- Halogen-free / RoHS compliant
  (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

■ Marking Symbol: AD

■ Packaging

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

Unit: mm



1. Cathode
2. Anode

Panasonic	Mini2-F4-B
JEITA	SC-109D
Code	SOD-123

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Forward current (Average) *1	IF(AV)	3.0	A
Non-repetitive peak forward surge current	IFSM	50 *2	A
		15 *3	A
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +125	°C

Note: *1 Tl = 60 °C / DC
*2 Rectangle wave 1 cycle (Pulse width = 50 µs, non-repetitive peak current)
*3 50 Hz sine wave 1 cycle (Non-repetitive peak current)

Internal Connection

Established : 2010-02-26
Revised : 2013-04-24

Schottky Barrier Diode

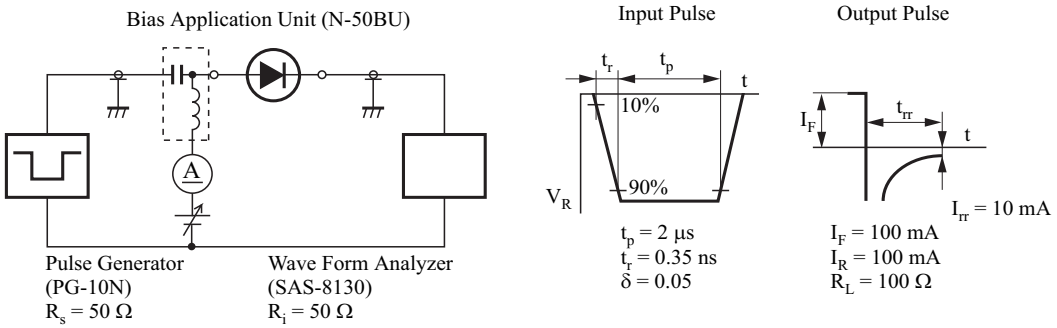
Panasonic

DB2X41500L

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF1	IF = 1.0 A		0.35	0.44	V
	VF2	IF = 3.0 A		0.47	0.55	
Reverse current	IR	VR = 40V		40	200	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		70		pF
Reverse recovery time *1	trr	IF = IR = 100 mA Irr = 10 mA, RL = 100 Ω		25		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



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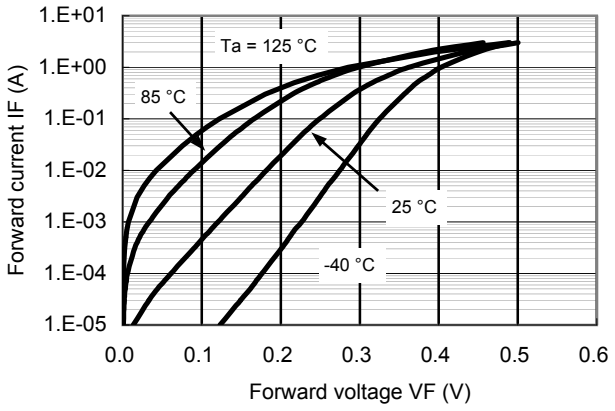
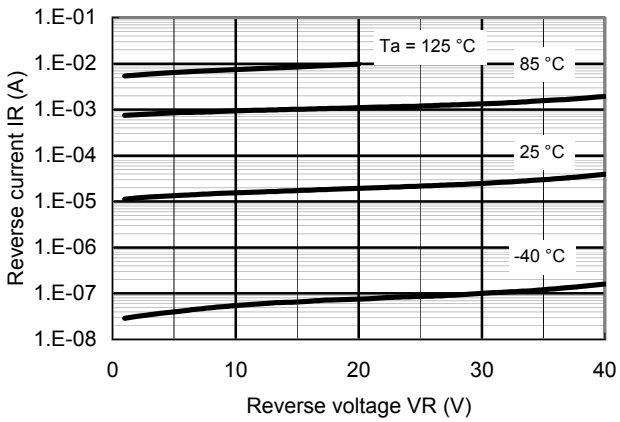
Schottky Barrier Diode
DB2X41500L

Technical Data (reference)

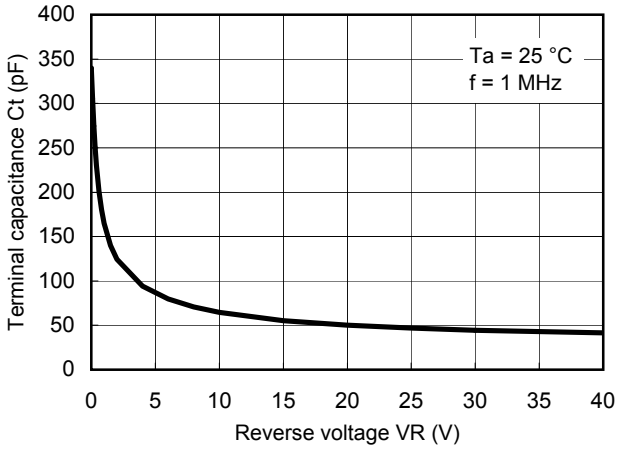
IF - VF



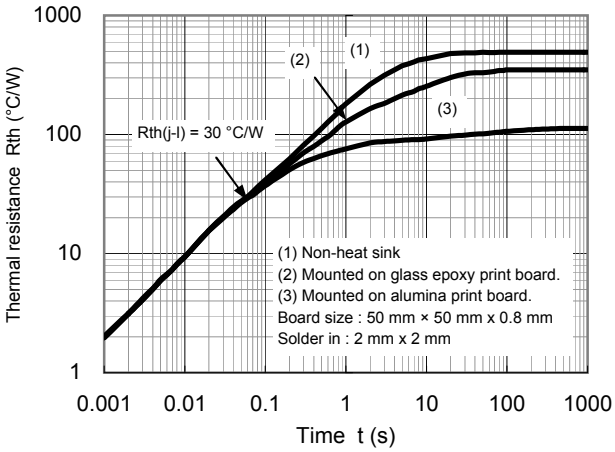
IR - VR



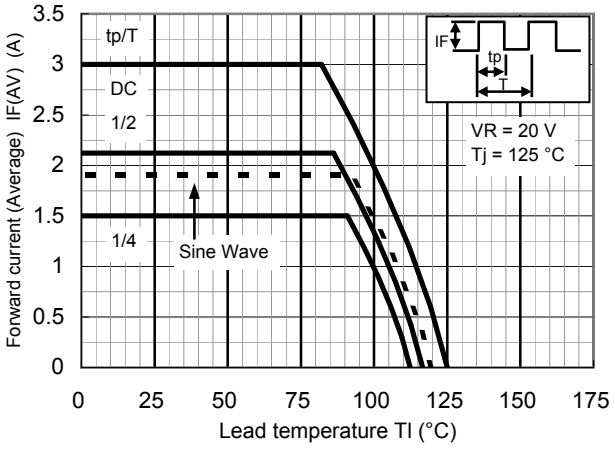
Ct - VR



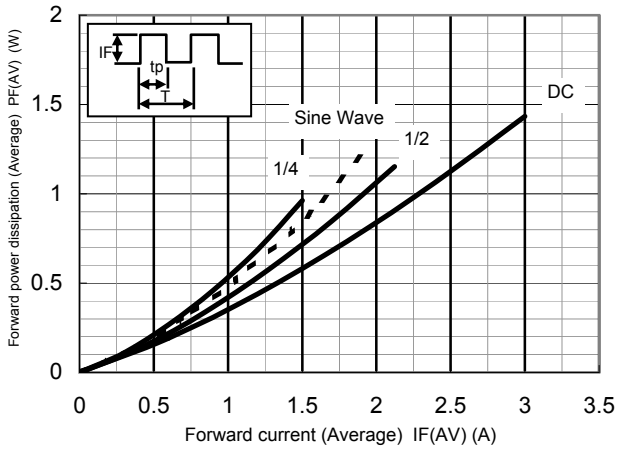
Rth - t



IF(AV) - Tl



PF(AV) - IF(AV)



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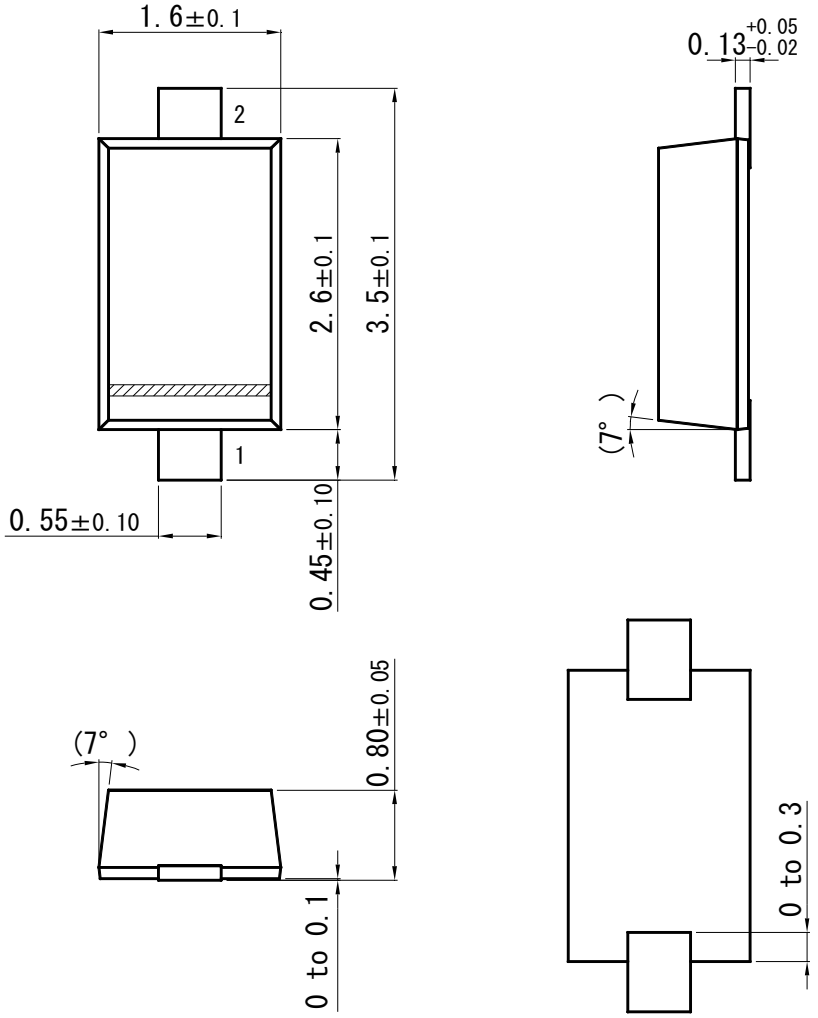
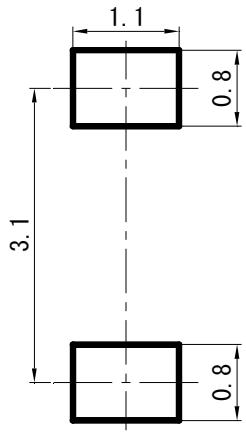
Panasonic

Mini2-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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Revised : 2013-04-24

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20100202

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