Schottky Barrier Diode

DB2W40300L

Panasonic

DB2W40300L

Silicon epitaxial planar type

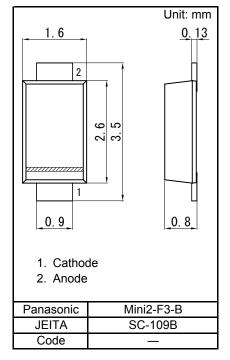
For rectification DB24403 in Mini2 type package

■ 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: 43

■ Packaging

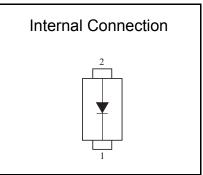
Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)



■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	VR	40	V	
Maximum peak reverse voltage	VRM	40	V	
Forward current *1	IF	3.0	Α	
Non-repetitive peak forward surge current *2	IFSM	30	Α	
Junction temperature *1	Tj	150	°C	
Operating ambient temperature	Topr	-40 to +85	°C	
Storage temperature	Tstg	-55 to +150	°C	

Note: *1 TI = 80 °C



Established: 2012-03-02 Revised: 2013-04-27

^{*2 50} Hz sine wave 1 cycle (Non-repetitive peak current)

Doc No. TT4-EA-14125

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Revision. 2

Schottky Barrier Diode

DB2W40300L

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

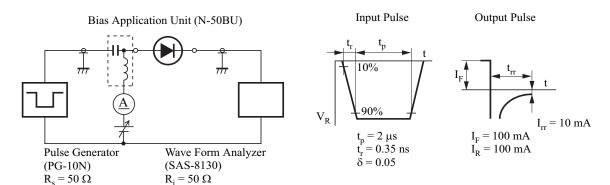
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 3.0 A			0.54	V
Reverse current	IR	VR = 40 V			250	μA
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		50		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA		15		ns

- 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

Established: 2012-03-02

Revised

: 2013-04-27



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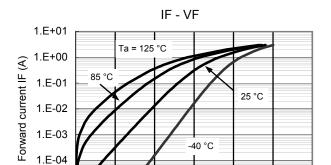
1.E-05

0.0

0.1

Schottky Barrier Diode DB2W40300L

Technical Data (reference)



0.2

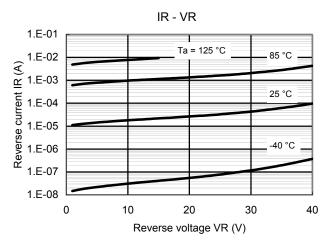
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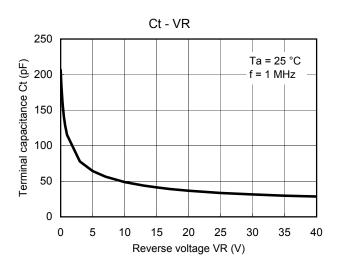
Forward voltage VF (V)

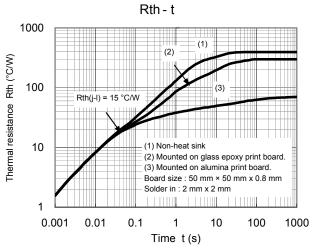
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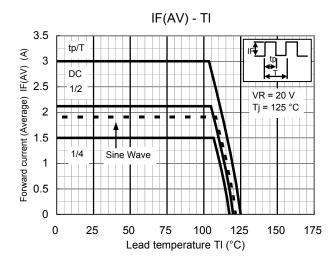
0.5

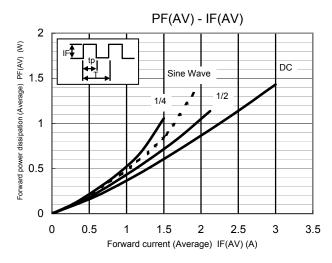
0.6











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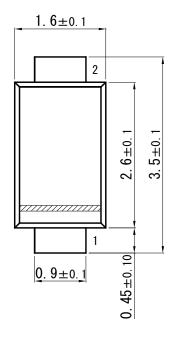
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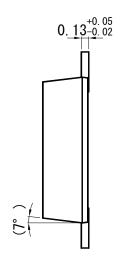
Schottky Barrier Diode

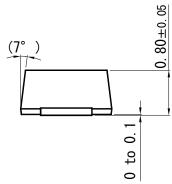
DB2W40300L

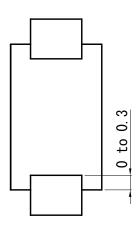
Mini2-F3-B

Unit: mm

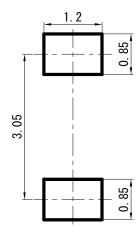








■ Land Pattern (Reference) (Unit: mm)



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