



DB2440500L

Silicon epitaxial planar type

For 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: 44

■ Packaging

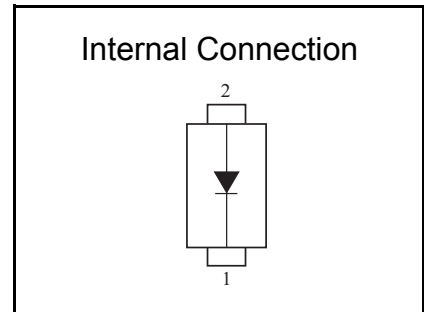
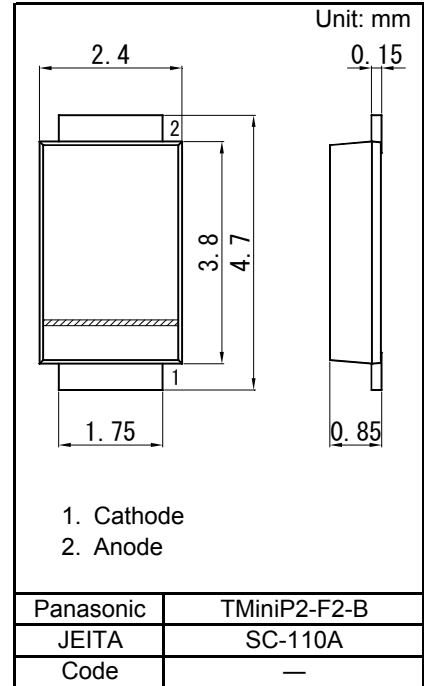
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ 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	A
Non-repetitive peak forward surge current ^{*2}	IFSM	30	A
Junction temperature ^{*1}	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

Note: *1 Tl = 80 °C

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

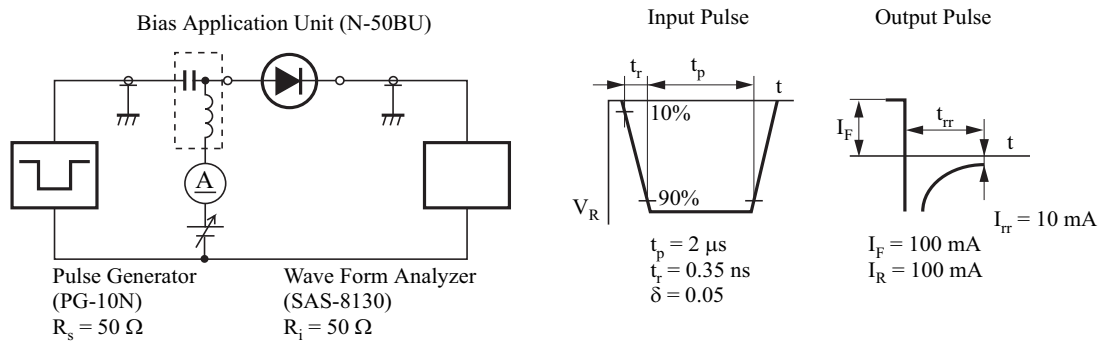




■ Electrical Characteristics $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

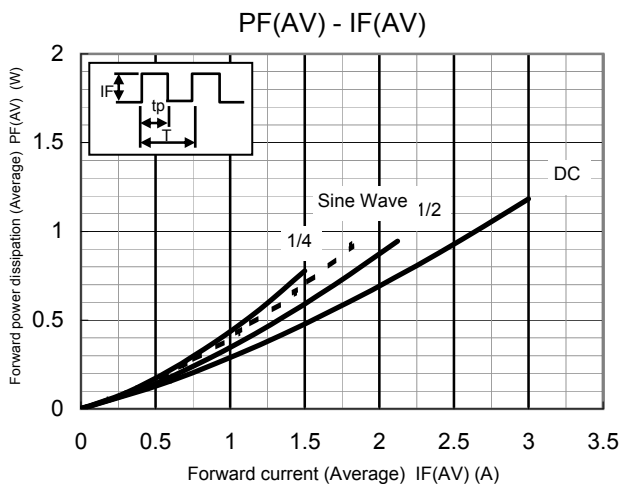
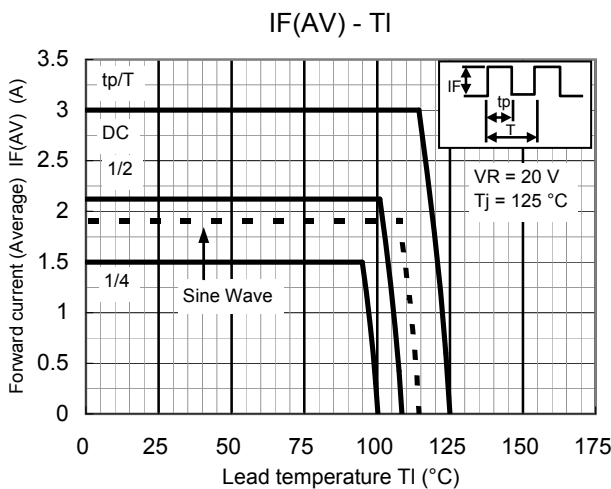
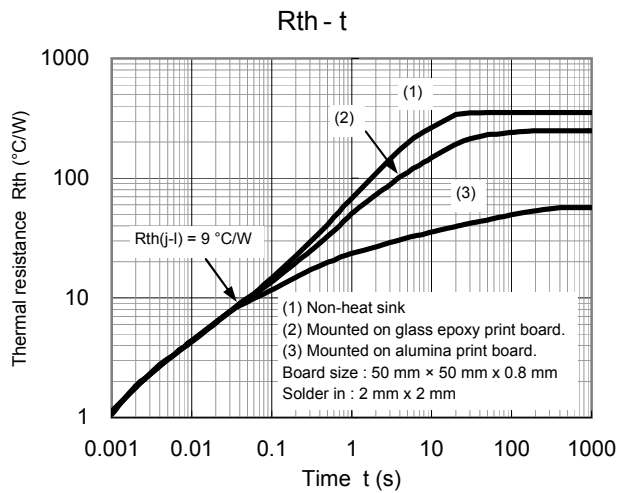
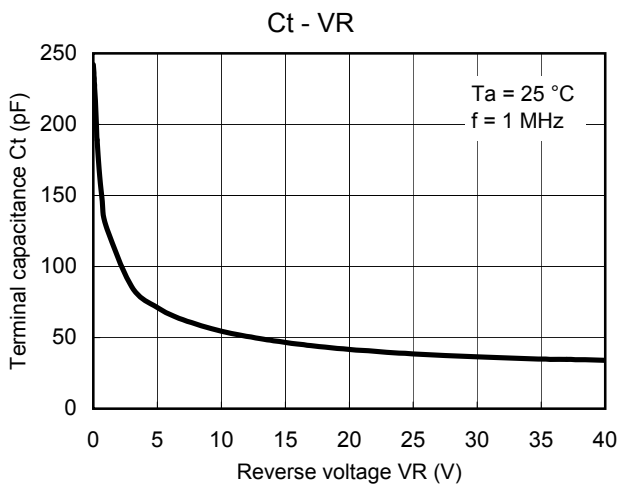
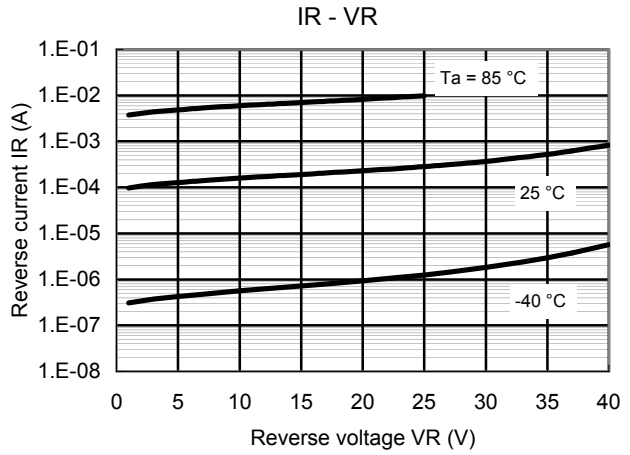
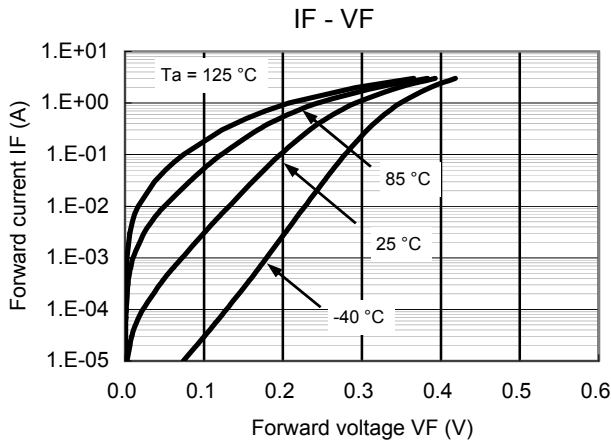
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 3.0 A			0.44	V
Reverse current	IR1	VR = 20 V			800	μA
	IR2	VR = 40 V			2400	
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		57		pF
Reverse recovery time *1	trr	IF = IR = 100 mA, Irr = 10 mA		18		ns

- 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





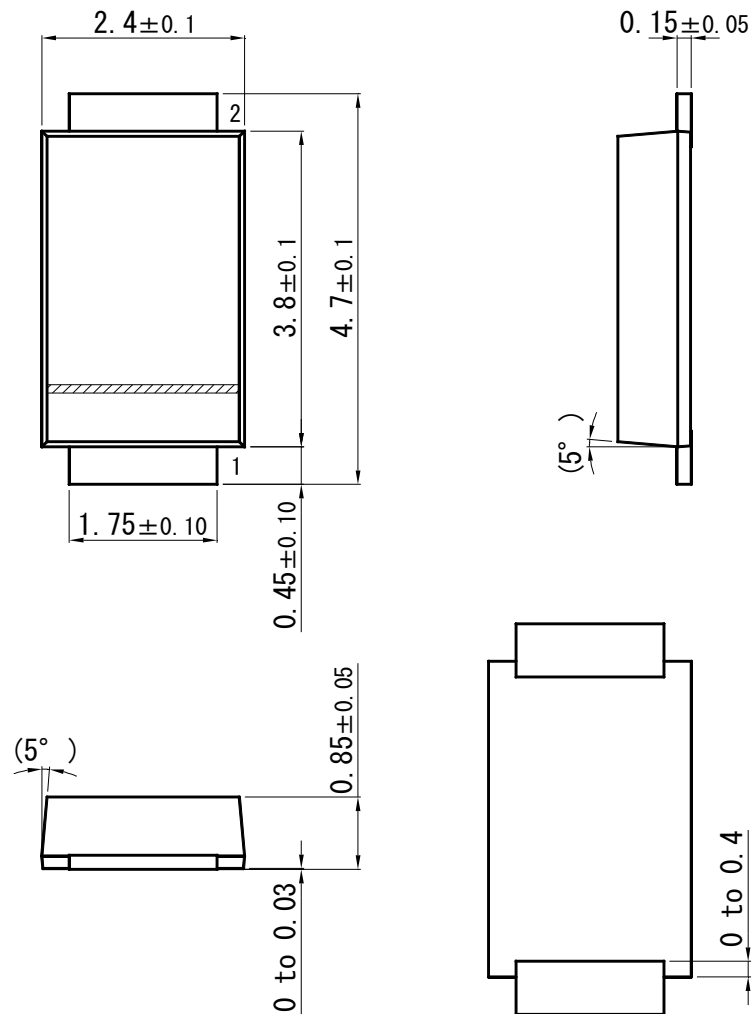
Technical Data (reference)



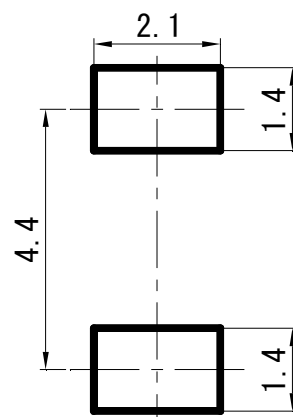


TMiniP2-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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