



# DB2440400L

Silicon epitaxial planar type

For rectification

■ Features

- Small reverse current IR
- 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: A8

■ Packaging

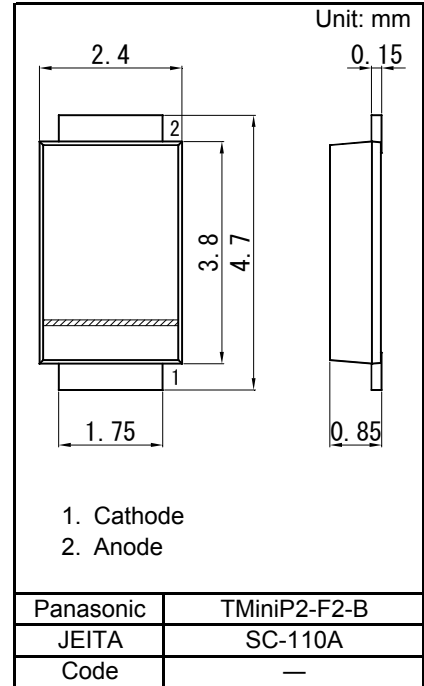
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Reverse voltage	VR	40	V
Repetitive peak reverse voltage	VRRM	40	V
Forward current (Average) <sup>*1</sup>	IF(AV)	3.0	A
Non-repetitive peak forward surge current <sup>*2</sup>	IFSM	60	A
Junction temperature	Tj	125	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-40 to +125	°C

Note: \*1 For embedded alumina substrate (substrate size: 5 cm× 5 cm)

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

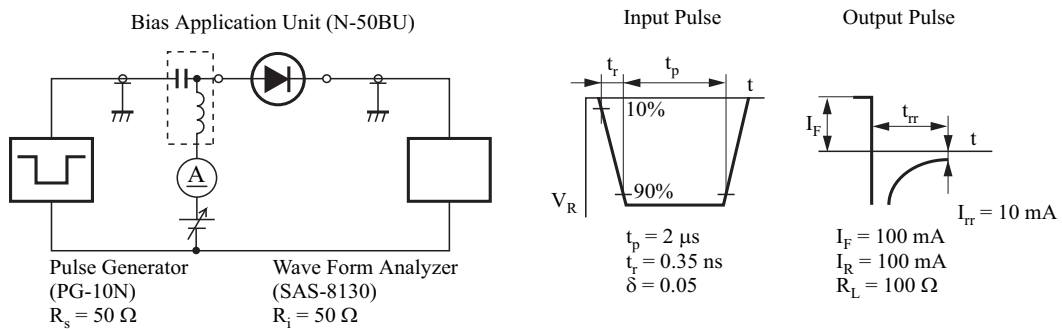




■ Electrical Characteristics  $T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$

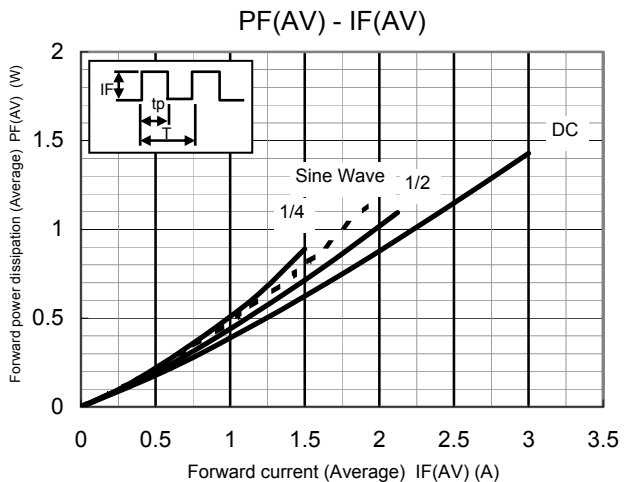
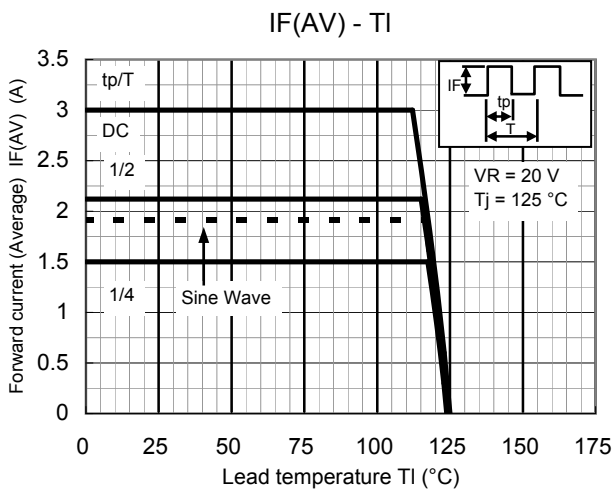
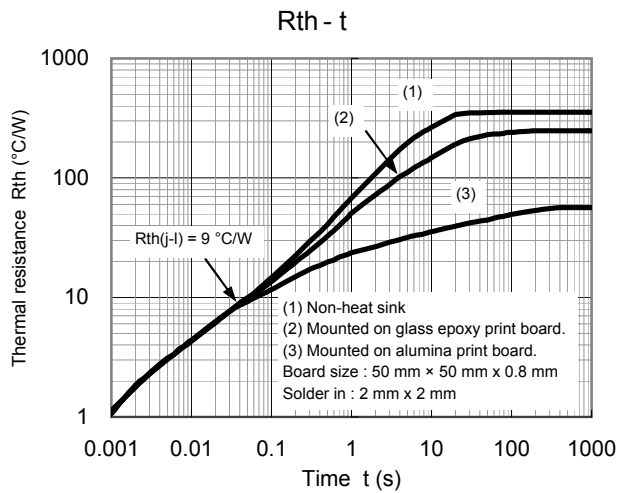
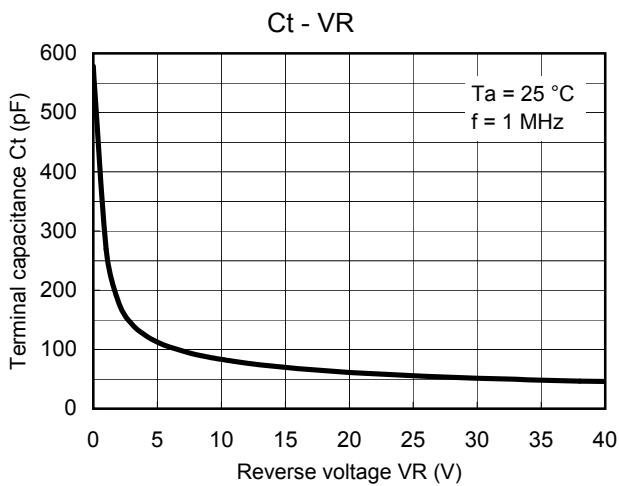
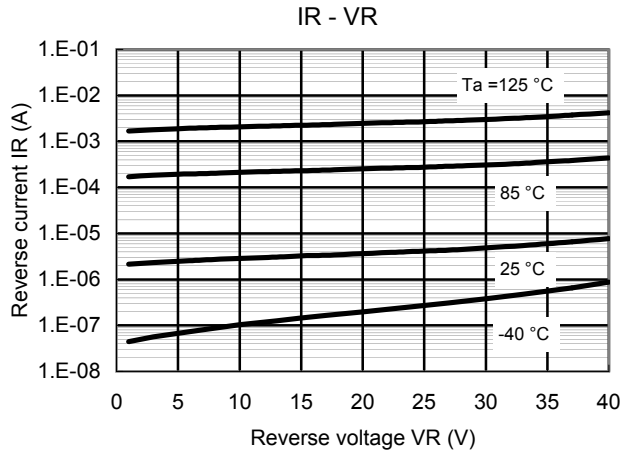
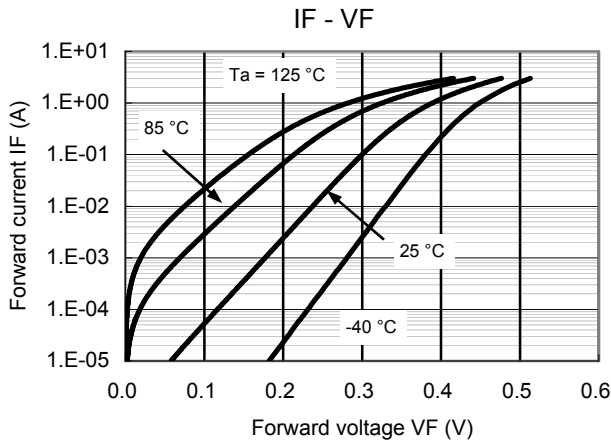
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF = 3.0 A			0.53	V
Reverse current	IR	VR = 40 V			50	$\mu\text{A}$
Terminal capacitance	Ct	VR = 10 V, f = 1 MHz		85		pF
Reverse recovery time *1	trr	IF = IR = 100 mA Irr = 10 mA, RL = 100 $\Omega$		30		ns

- 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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