

The metal case inside of the molding compound may be exposed on the top or bottom of this product. This purely cosmetic and does not have any effect on quality, reliability or electrical specs

Prohibition of use of glue after a mount of a product

An LC package product cannot use glue and resin coating. When such a processing is necessary, please examine a CE package product.

* Refer to application manual for details.

 $T_a = -40 \degree C$ to +85 $\degree C$

Specifications (characteristics)

Interrupt out B.

Do not connect

Recommended Operating Conditions						
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Operating voltage	VACCESS	Vdd	2.4	3.0	5.5	V
Time keeping voltage	VCLK	VBAT	1.0	3.0	5.5	V
Operating temperature	TOPR	_	-40	+25	+85	°C
Storage temperature	TSTG	_	-55		+125	°C

32.768kHz output. (CMOS. Can not inhibit.)

Frequency characteristics

/ INTB

CLKOUT

N.C

Output

Output

Item	Symbol Conditions		Rating	Unit
Frequency tolerance	∆f/f	Ta = +25°C VBAT = 3.0 V	B: 5 ± 23 *1) AA: 5 ± 5 *2) AC: 0 ± 5 *2)	× 10 ⁻⁶
Oscillation start-up time	t sta	Ta = +25 °C VDD = 3.0 V	1 Max.	s
Frequency / voltage characteristics	f/V	Ta = +25 °C VDD = 2.4 V to 5.5 V	±1 Max.	× 10 ⁻⁶

*2) Equivalent to ±13 seconds of monthly deviation (excluding offset.)

Current consumption characteristics					Ta = -40 °C to +85 °C		
Item	Symbol	Conditions	Тур.	Max.	Unit		
Current Consumption	IBAT	RX-8035SA VBAT = 3.0V, VDD = 0.0V SCL=SDA = GND		350	1200	nA	
		RX-8035LC VBAT = 3.0V, VDD = 0.0V SCL=SDA = GND	-	400			
	IDD	V _{DD} = 3.0V SCL=SDA = GND CLKOUT = open	-	1.40	2.50	μA	

Power supply detection voltage

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Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Voltage of low battery voltage.	VLOW	-	1.10	1.25	1.40	V
Power switching voltage (VDD to VBAT)	Vd2b	+25 °C	2.328	2.40	2.472	V

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs, Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired IATF 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

IATF 16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

Pb Free	► Pb free.
RoHS	 Complies with EU RoHS directive. *About the products without the Pb-free mark. Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)
Per Auromotive	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
Automotive Safety	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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