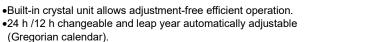
REAL TIME CLOCK MODULE (4-bit)

RTC-72423



Product Number

RTC-72423A: Q42724232000600 RTC-72423B: Q42724232000700

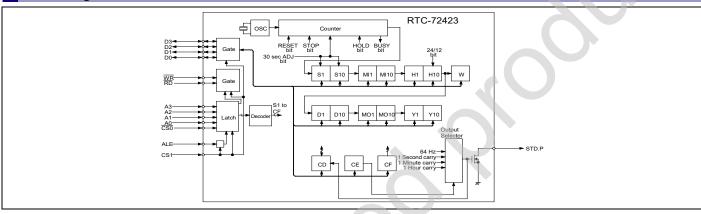


Note

- •7242series does not have complete compatibility ability for the "old product RTC-6242 series".
- •when replace to 7242series from 6242 series, confirm the technical information of RTC7242 latest manual by all means.



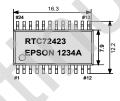
Block diagram



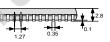
Terminal connection/External dimensions

(Unit:mm)





NO.	PIN	NO.	PIN
	terminal		terminal
1	STD.P	24	VDD
2	/CS ₀	23	(VDD)
3	N.C.	22	(VDD)
4	ALE	21	N.C.
5	Ao	20	CS1
6	N.C.	19	Do .
7	A1	18	N.C.
8	N.C.	17	N.C.
9	A2	16	D1
10	A3	15	D ₂
11	/RD	14	D3
12	GND	13	WR





he metal case inside of the molding compound may be exposed on the top or bottom of this production by purely cosmetic and does not have any effect on quality reliability or electrical specs

Specifications (characteristics)

*Refer to application manual for details.

Absolute Max. rating

7 tab o o tatto i i tatti i g							
Item	Symbol	Conditions	Min.	Max.	Unit		
Supply voltage	VDD	Ta=+25 °C	-0.3	+7.0			
Input voltage	Vivo	Ta=+25 °C	GND-0.3	V _{DD} +0.3	V		
Storage temperature *	Тѕтс		-55	+125	°C		

*Stored as bare product after unpacking

Operating range

Item	Symbol	Conditions	Min.	Max.	Unit	
Power voltage	V _{DD}	l	4.5	5.5		
Clock voltage	Vclk	_	2.0	5.5	V	
Operating temperature	Topr		-40	+85	°C	

No condensation

Frequency characteristics

1 requericy characteristics						
Item	Symbol		Conditions	Range	Unit	
Frequency	Δf /f	Ta=+25 °C	72423A	±20		
precision	Δ1 /1	V _{DD} =5.0 V	72423B	±50	×10 ⁻⁶	
Frequency temperature characteristics	TOP	-40 °C 1	to +85 °C(+25 °C)	+10 / -220		
Frequency voltage characteristics	f/V	Ta=+25 °C	C,V _{DD} =2.0 V to 5.5 V	±5.0 Max.	×10 ⁻⁶ /V	
Aging	fa	Ta=+25 °C	,V _{DD} =5.0 V,First year	±5.0 Max.	×10 ⁻⁶ /year	

DC characteristics

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit	Applicable terminal
Current consumption	I _{DD1}	CS ₁ = 0 V V _{DD} =5 V		1	10		_
	I _{DD2}	Exclude input/ output current VDD=2 V	_	0.9	5	μА	_
HIGH input voltage (1)	VIH1		2.2		_	V	All inputs other than
LOW input voltage (1)	VIL1	_	_		0.8	V	CS ₁
LOW output voltage (1)	V _{OL1}	IoL=2.5 mA	_				D₀ to D₃
HIGH output voltage	Vон	Іон=-400 µА	2.4	_			
LOW output voltage (2)	V _{OL2}	IoL=2.5 mA			0.4		STD.P
OFF leak current	Iofflk	V ₁ =V _{DD} /0 V			10/-10	μА	310.P
Input capacity	C ₁	Input frequency 1 MHz	_	10		pF	Input other than D ₀ to D ₃
,		I IVIHZ		20	20		D ₀ to D ₃ , STD.P
HIGH input voltage (2)	V _{IH2}	Vpp=2.0 V to 5.5 V	4/5 V _{DD}			V	CS ₁
LOW input voltage (2)	VIL2	VDD-2.0 V tO 5.5 V	_		1/5 VDD		
Input leak current (1)	ILK1	V1=VDD/0 V		-	1/-1	μΑ	Input other than D ₀ to D ₃
Input leak current (2)	ILK2				10/-10		D ₀ to D ₃

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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.

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.

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

Explanation of the mark that are using it for the catalog



►Pb free.



► 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.)



▶ Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.



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