

Pb-Free, Real Time Clock/Calendar with EEPROM in 8 LD SOIC HT SUS4
 CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	SOIC-8
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ISL12026IBZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL12026 and the ISL12026A devices are micro power real time clocks with timing and crystal compensation, clock/calender, power-fail indicator, two periodic or polled alarms, intelligent battery backup switching, and integrated 512x8-bit EEPROM configured in 16 Bytes per page. The oscillator uses an external, low-cost 32.768kHz crystal. The real time clock tracks time with separate registers for hours, minutes, and seconds. The device has calendar registers for date, month, year and day of the week. The calendar is accurate through 2099, with automatic leap year correction. The ISL12026 and ISL12026A have different types of Power Control Settings. The ISL12026 uses the Legacy Mode Setting, which follows conditions set in X1226 products. The ISL12026A uses the Standard Mode Setting. Please refer to "Power Control Operation" on page 13 for more details. Also, please refer to "I2C Communications During Battery Backup" on page 22 for important details.

Features

Real Time Clock/Calendar

Tracks Time in Hours, Minutes and Seconds

Day of the Week, Day, Month and Year

3 Selectable Frequency Outputs

Two Non-Volatile Alarms

Settable on the Second, Minute, Hour, Day of the Week, Day or Month

Repeat Mode (Periodic Interrupts)

Automatic Backup to Battery or SuperCap

On-Chip Oscillator Compensation

Internal Feedback Resistor and Compensation Capacitors

64 Position Digitally Controlled Trim Capacitor

6 Digital Frequency Adjustment Settings to ± 30 ppm

512x8 Bits of EEPROM

16-Byte Page Write Mode (32 total pages)

8 Modes of BlockLock™ Protection

Single Byte Write Capability

High Reliability

Data Retention: 50 years

Endurance: >2,000,000 Cycles Per Byte

I²C Interface

400kHz Data Transfer Rate

800nA Battery Supply Current

Package Options

8 Ld SOIC and 8 Ld TSSOP Packages

Pb-Free (RoHS Compliant)

Related Products



[IS82C54-10Z](#)

Renesas Technology Corp
PDIP-28

[IS82C54Z](#)



Renesas Technology Corp
PLCC-28

[ISL1208IB8Z](#)



Renesas Technology Corp
SOIC-8

[ISL12020MIRZ](#)



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DFN-20



[ISL12022IBZ](#)

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