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ICM7218

Printer Friendly Version

8-Digit LED Microprocessor-Compatible Multiplexed Display Decoder Driver

DS Datasheet & Related Docs | Description | Key Features | PT Parametric Data | Application Diagrams | Related Devices

Ordering Information

Part No.	Status	Temp.	Package	MSL	[redacted]		
ICM7218AIJI	Active	Ind	28 Ld CerDIP	N/A	2.93	Buy	Sample
ICM7218BIJI	Active	Ind	28 Ld CerDIP	N/A	3.93	Buy	Sample
ICM7218CIJI	Active	Ind	28 Ld CerDIP	N/A	3.53	Buy	Sample
ICM7218DIJI	Active	Ind	28 Ld CerDIP	N/A	3.63	Buy	

The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

SMD = Standard Microcircuit Drawing

Description

The ICM7218 series of universal LED driver systems provide, in a single package, all the circuitry necessary to interface most common microprocessors or digital systems to an LED display. Included on chip are an 8-byte static display memory, two types of 7-segment decoders, multiplex scan circuitry, and high current digit and segment drivers for either common-cathode or common-anode displays.

The ICM7218A and 1CM7218B feature two control lines ($\overline{\text{WRITE}}$ and MODE) which write either 4 bits of control information (DATA COMING, $\overline{\text{SHUTDOWN}}$, DECODE, and HEXA/CODE B) or 8 bits of display input data. Display data is automatically sequenced into the 8-byte internal memory on successive positive going $\overline{\text{WRITE}}$ pulses. Data may be displayed either directly or decoded in Hexadecimal or Code B formats.

The ICM7218C and ICM7218D feature two control lines ($\overline{\text{WRITE}}$ and HEXA/CODE B/$\overline{\text{SHUTDOWN}}$), 4 separate display data input lines, and 3 digit address lines. Display data is written into the internal memory by setting up a digit address and strobing the $\overline{\text{WRITE}}$ line low. Only Hexadecimal and Code B formats are available for display outputs.

Key Features

- Microprocessor Compatible
- Total Circuit Integration On Chip Includes:
  - Digit and Segment Drivers
  - All Multiplex Scan Circuitry
  - 8-Byte Static Display Memory
  - 7-Segment Hexadecimal and Code B Decoders
- Output Drive Suitable for LED Displays Directly
- Common Anode and Common Cathode Versions
- Single 5V Supply Required
- Data Retention to 2V Supply
- Shutdown Feature - Turns Off Display and Puts Chip Into Low Power Dissipation Mode
- Sequential and Random Access Versions
- Decimal Point Drive On Each Digit

Related Documentation

Application Note(s):

- Display Driver Family Combines Convenience of Use with Microprocessor Interfaceability

Datasheet(s):

- 8-Digit LED Microprocessor-Compatible Multiplexed Display Decoder Driver

Technical Homepage:

- Display Products

Parametric Data

Alphanumeric?	No
# of Digits	8
Display Type	LED, CA or CC
Multiplexed?	Yes
Font	CODE B, HEX
Interface	BIT PAR.,DIGIT SER.
Cycle Time (ns)	400

Application Block Diagrams

- Medical Telemetry

Related Devices

Parametric Table

ICM7211A	4-Digit, LCD Display Driver
ICM7211AM	4-Digit, LCD Display Driver
ICM7228	8-Digit, Microprocessor-Compatible, LED Display Decoder Driver
ICM7243	8-Character, Microprocessor-Compatible, LED Display Decoder Driver

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