

# SHARP LH15A1

## NEW PRODUCT INFORMATION

LCD driver with built-in RAM for 256-color STN-LCDs

### ■ Outline

LH15A1 is one of the industry's most advanced wide-screen STN-LCD drivers for 256-color display. The industry's first subscreen display function makes it possible to display different images and data in a subscreen inside the main LCD screen. It also has a built-in display RAM, a power supply circuit for LCD drive, and an LCD controller circuit, therefore contributing to compact system design. Its partial display function\* realizes low power consumption.

\*Partial display function: A function that utilizes only part of the screen, thus reducing power consumption.

### ■ Main specifications

- 256-color display
- Outputs     Segment: 384 outputs  
                  Common: 82 outputs
- Display RAM capacity: 83 968 bits
- Built-in display RAM and power supply circuit
- Partial display functions
- Switchable display in black and white mode
- Bus connection with 80-family/68-family MPU
- Logic power supply voltage: 1.7 to 3.3 V
- LCD driving voltage: 5.0 to 15.0 V
- Booster: 2 to 5 times
- Write system cycle: 140 ns
- Package: TCP

### ■ System configuration (Master/slave method)

