

## 20-BIT SERIAL TO PARALLEL CONVERTER

### ■ GENERAL DESCRIPTION

The **NJU3718A** is a 20-bit serial to parallel converter especially applying to MPU output expander. It can operate from 2.4V to 5.5V.

The effective output assignment of MPU is available as the connection between **NJU3718A** and MPU using only 4 lines.

The serial data synchronizing with 5MHz or more clock can be input to the serial data input terminal and the data are output from parallel output buffer through serial in parallel out shift register and parallel data latches.

Furthermore, the **NJU3718A** outputs the serial data from SO terminal through the shift register. Therefore, it connects with other SIPO ICs like as NJU3711A in cascade for expanding the parallel conversion outputs.

The hysteresis input circuit realizes wide noise margin and the high drive-ability output buffer (25mA) can drive LED directly.

### ■ PACKAGE OUTLINE

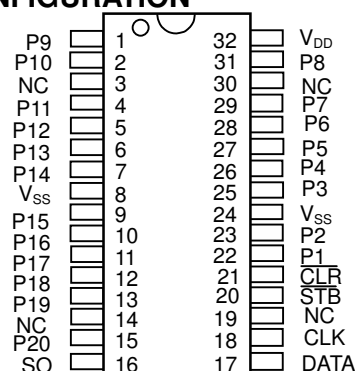


**NJU3718AV**

### ■ FEATURES

- 20-Bit Serial In Parallel Out
- Cascade Connection
- Hysteresis Input 0.5V typ at 5V
- Operating Voltage 2.4 to 5.5V
- Maximum Operating Frequency 5MHz
- Output Current 25mA at 5V, 5mA at 3V
- C-MOS Technology
- Package Outline SSOP32

### ■ PIN CONFIGURATION



**NJU3718AV**

### ■ BLOCK DIAGRAM

