Character Drivers

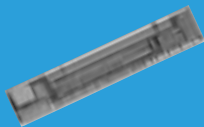## 12-Ch / 2-L Dot Matrix LCD controller Driver with Icon display

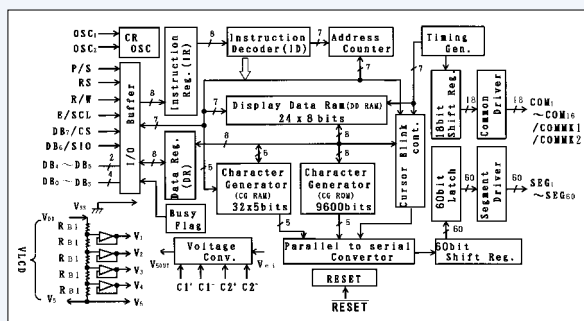### NJU6461 `DATA SHEET`

■ GENERAL DESCRIPTION

The NJU6461 is a Dot Matrix LCD controller Driver for 12-character 2-line with icon display maximum by itself.

It contains voltage Tripler, bleeder resistance to generate about triple voltage (9V) and the bias for LCD Driving waveform internally from single power supply (3V). The rectangle outlook is very applicable to COG or slim TCP.

■ FEATURES

- 12-character/2-line Dot Matrix LCD controller driver
- Character Generator ROM : 9,600 bits
- Character Generator RAM : 32x5 bits
- Voltage Tripler On-chip
- Low power consumption : 95uA Typ.
- Operating voltage : 2.4V to 3.6V(Except LCD Driving Voltage)
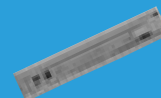- Package outline : Bump-chip(Rectangle shaped for COG) / TCP

■ BLOCK DIAGRAM

16-Ch / 3-L Dot Matrix LCD controller Driver with Icon display

NJU6464 `DATA SHEET`

■ GENERAL DESCRIPTION

The NJU6464 is a Dot Matrix LCD controller Driver for 16-character 3-line with icon display(152-icon) maximum by itself.

It contains voltage Tripler, bleeder resistance, CR oscillator. The voltage Tripler and bleeder resistance generates about triple voltage (9V) and bias voltage for LCD Driving waveform internally from single power supply (3V).

■ FEATURES

- 16-character/3-line Dot Matrix LCD controller driver
- Character Generator ROM : 10,080 bits
- Character Generator RAM : 32x5 bits
- Icon Display RAM : 32x5 bits
- Software contrast control (Voltage Regulator On-chip)
- Voltage Tripler On-chip (Switchable Doubler / Tripler)
- Low power consumption (Power Down Function)
- Operating voltage : 2.4V to 3.6V(Except LCD Driving Voltage)
- Package outline : Bump-chip(Rectangle shaped for COG)

■ BLOCK DIAGRAM

Character Driver

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