

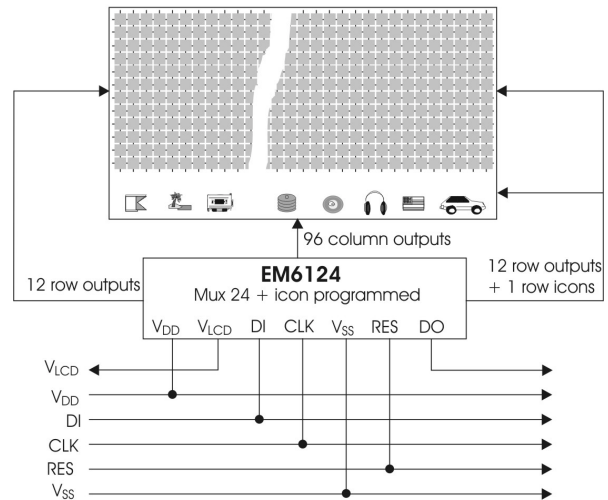


25 to 8 MUX LCD Controller and Driver

High Uniformity of Contrast and no external components

Description

The EM6124 is an ultra-low power bit map controller and driver for full dot matrix monochrome STN LCD displays. The driving capability is **25 rows x 96 columns to 8 rows x 113 columns** addressed by 3-wire interface. V_{LCD} is internally generated until 7V without external components.



Key Features

- High accuracy of frame frequency and LCD voltage by laser trimming
- No external components
- Generated LCD voltage on chip
- 3-wire interfaces
- LCD voltage digitally programmable 3V to 7V
- Supply voltage from low 1.8V up to 5.5V
- True Low Current: $I_{HV}=65\mu A$
 $I_{DD}=16\mu A$ (active)
 $I_{DD}=0.1\mu A$ (sleep)
- Temperature compensation of V_{LCD} (4 coefficients)
- Oscillator for LCD refresh on chip
- Intermediate bias voltage generation on chip
- Available in die with gold bumps, COG, COF and COB

Typical Applications

- Mobile and DECT phones
- MP3 and DVD players
- Automotive displays & car audio
- Graphic calculators
- Credit card readers
- Scales and utility meters

& BENEFITS

- Flexibility and easy to design-in*
- Uniformity of contrast of all dies in production*
- Usable with a wide range of modules*
- No flickering*
- Ideal for portable and mobile phones applications*
- Save PCB space*
- Cost effective*

