Tel: 886-2-66296288
Fax: 886-2-29174598
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DESCRIPTION

PT6324 is a Vacuum Fluorescent Display (VFD) Controller driven on a 1/8 to 1/16 duty factor housed in 52-pin plastic QFP. 24 segment output lines, 16 grid output lines, one display memory, control circuit, key scan circuit are all incorporated into a single chip to build a highly reliable peripheral device for a single chip micro computer. Serial data is fed to PT6324 via a three-line serial interface.

FEATURES

- CMOS technology
- Low power consumption
- Wide operating voltage V_{DD}=2.7V~5.5V
- Key scanning (16 x 2 matrix)
- Display modes: (24 segments, 8 digits to 24 segments, 16 digits)
- 8-Step dimming circuitry
- Serial interface for Clock, Data Input, Data Output, Strobe pins
- No external resistors needed for driver outputs
- Available in 52-pin QFP

APPLICATIONS

- Microcomputer peripheral devices
- Digital Audio/Video system: CD/MD/VCD/DVD players
- Car audio
- VCR
- Electric scale meter
- P.O.S.
- Electronic equipment with instructional display

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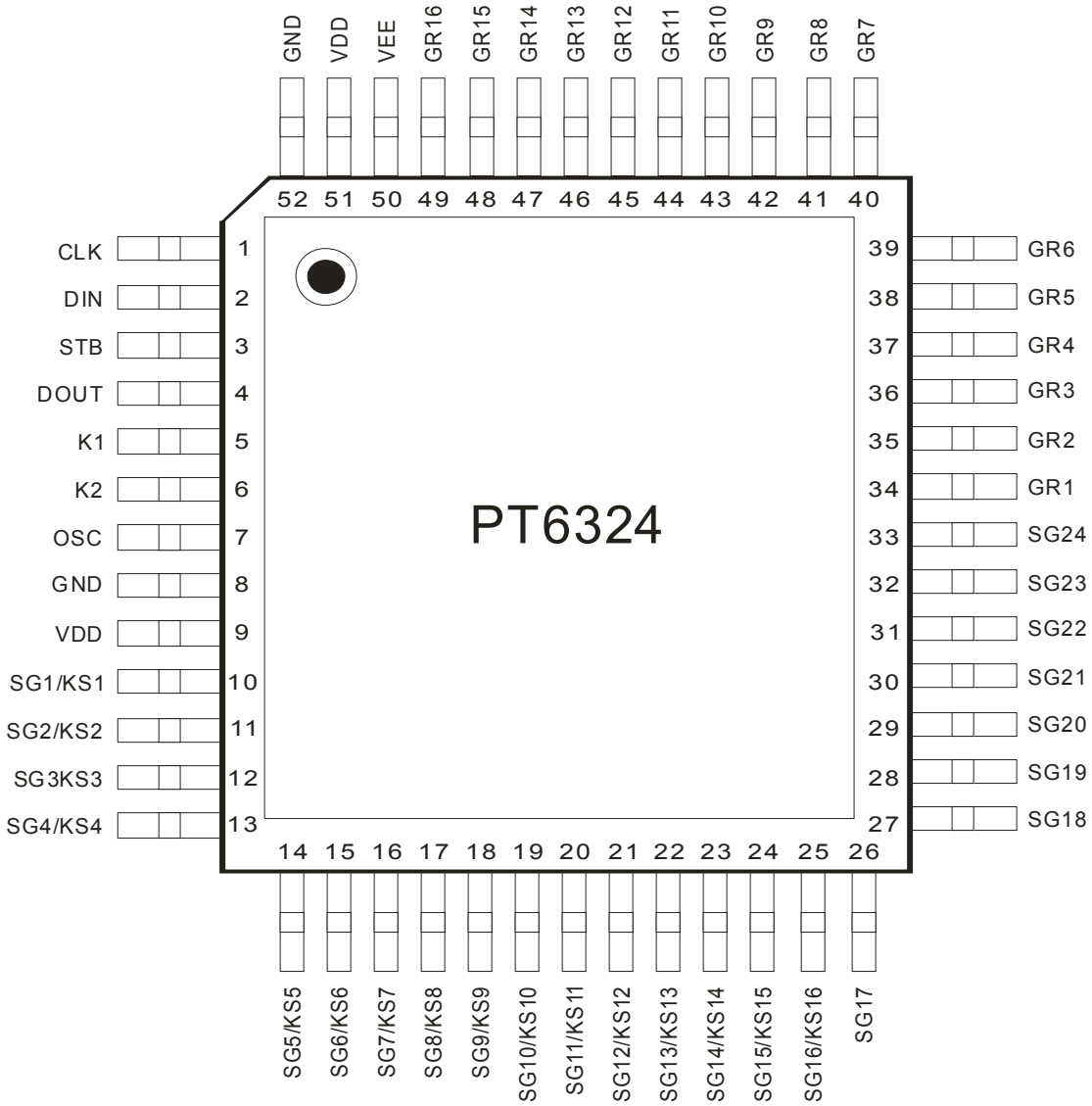
PIN CONFIGURATION



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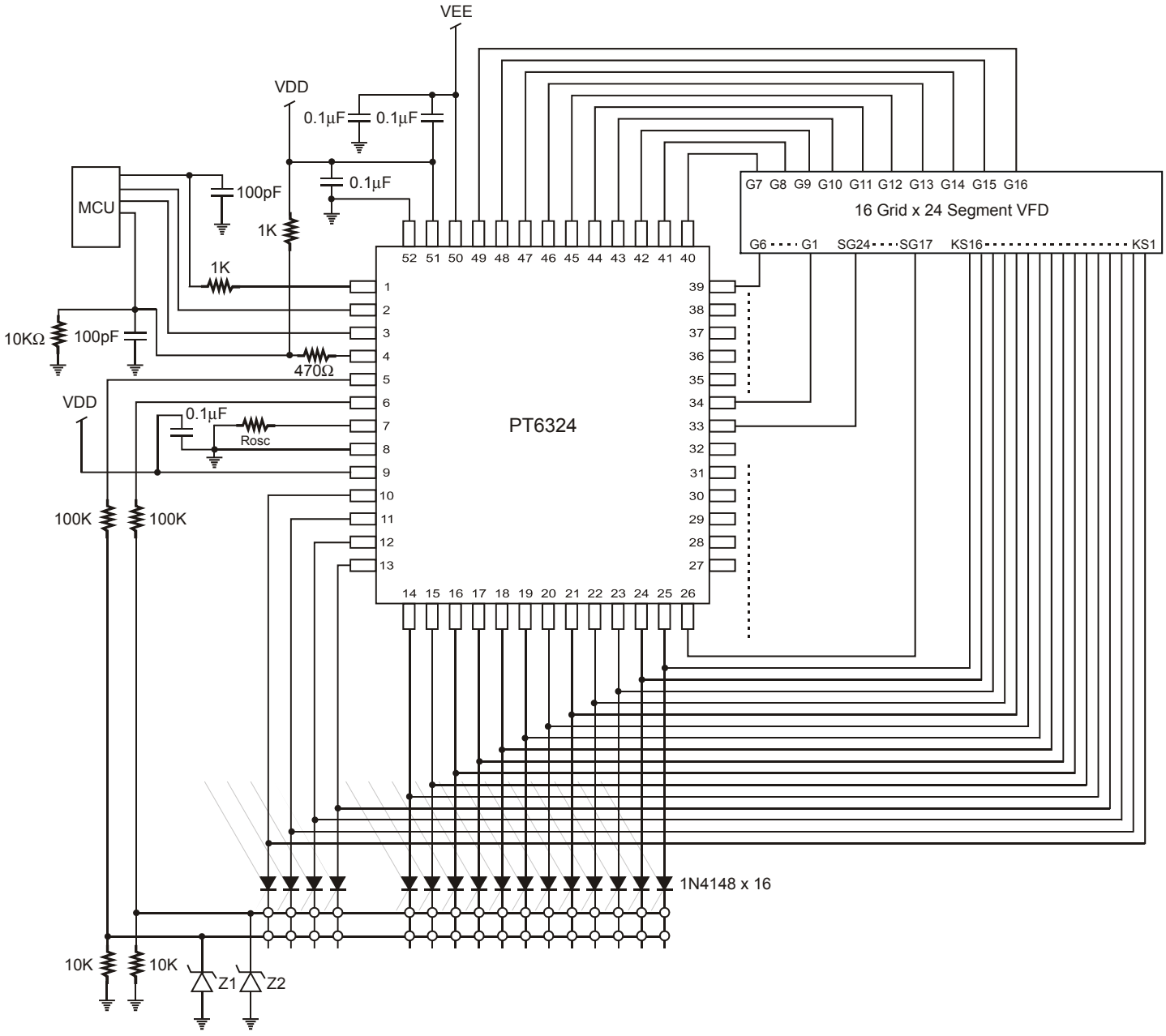
16-GRID X 24-SEGMENT VFD APPLICATION CIRCUIT



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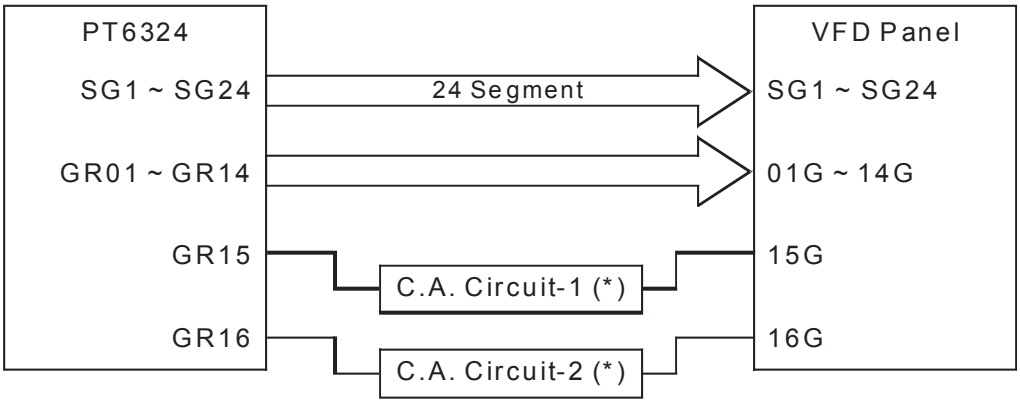
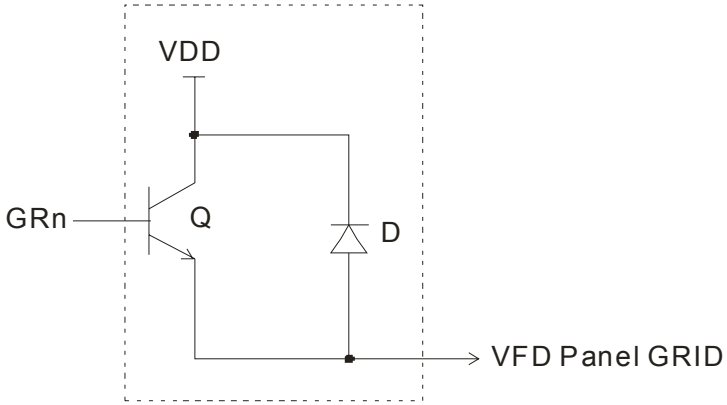
Notes:
1. The value of Rosc is depend on PT6324 IC chip supply voltage of V_{DD} (Rosc=82KΩ, when V_{DD}=5V; Rosc=100KΩ, when V_{DD}=3.3V).
2. Z1, Z2=Zener diode 5.1V
3. Please adding the current amplifying circuit as following figure when I_{OHGR}>15mA on VFD panel for high brightness issue.



*=C.A. Circuit=Current amplifying circuit

C.A. Circuit-1 & C.A. Circuit-2 Ex.:



Parts recommended:
- Q=SAMSUNG-KSR1105 (General fast switching transistor)
- D=HITACHI-HSM221C (General fast recovery diode)

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ORDER INFORMATION

Order Part Number	Package Type	Top Code
PT6324-Q	52 Pin QFP	PT6324-Q
PT6324-Q (L)	52 Pin QFP	PT6324-Q

Notes:
1. (L), (C) or (S) = Lead Free.
2. The Lead Free mark is put in front of the date code.