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**VFD Driver/Controller IC****PT6351**

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**DESCRIPTION**

PT6351 is a Vacuum Fluorescent Display Driver IC utilizing CMOS Technology. 28 High Voltage Ports, 17 All Purpose I/O Ports, 9 LED ports, Auto Scan Operation, 4-line Serial Signal (with chip selector), 8 DGT x 8 SG to 16 DGT x 12 SG are all incorporated into a single chip to build a highly reliable peripheral device for a single chip microcomputer. It is housed in 44-pin LQFP Package and is functionally compatible with MN12510F.

**FEATURES**

- CMOS Technology
- 28 High Voltage Output Ports: 8 to 16 Digit Ports  
8 to 16 Segment Ports
- 17 All-Purpose I/O Ports
- 9 LED Drive Capable Ports
- Display Modes: 8 DGT x 8 SG to 16 DGT x 12 SG or up to 12 DGT x 16 SG
- 32 Bytes Display Data
- Key Scan Input: 5x12 (max.)
- Display ON/OFF Control
- Auto Scan Operation
- Power ON Reset Circuit
- Supply Voltage: Digital Section:  $V_{DD} = 4.5$  to  $5.5$  V  
High Voltage:  $V_{pp} = V_{DD} - 35$  V
- Available in 44-pin, LQFP Package
- Functionally Compatible with MN12510F

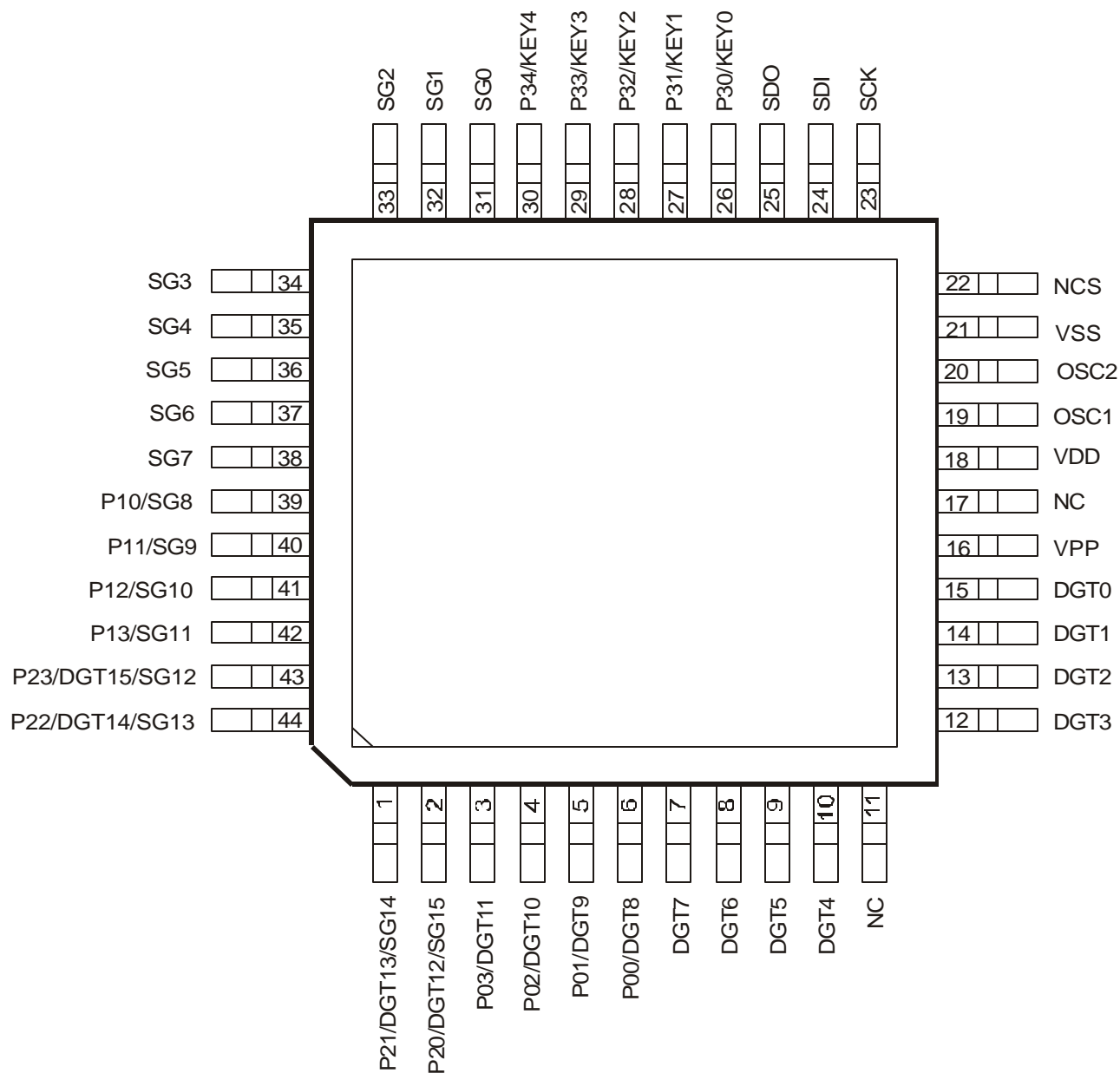
**APPLICATION**

- Peripheral Device for Micro-Computer

VFD Driver/Controller IC

**PT6351**

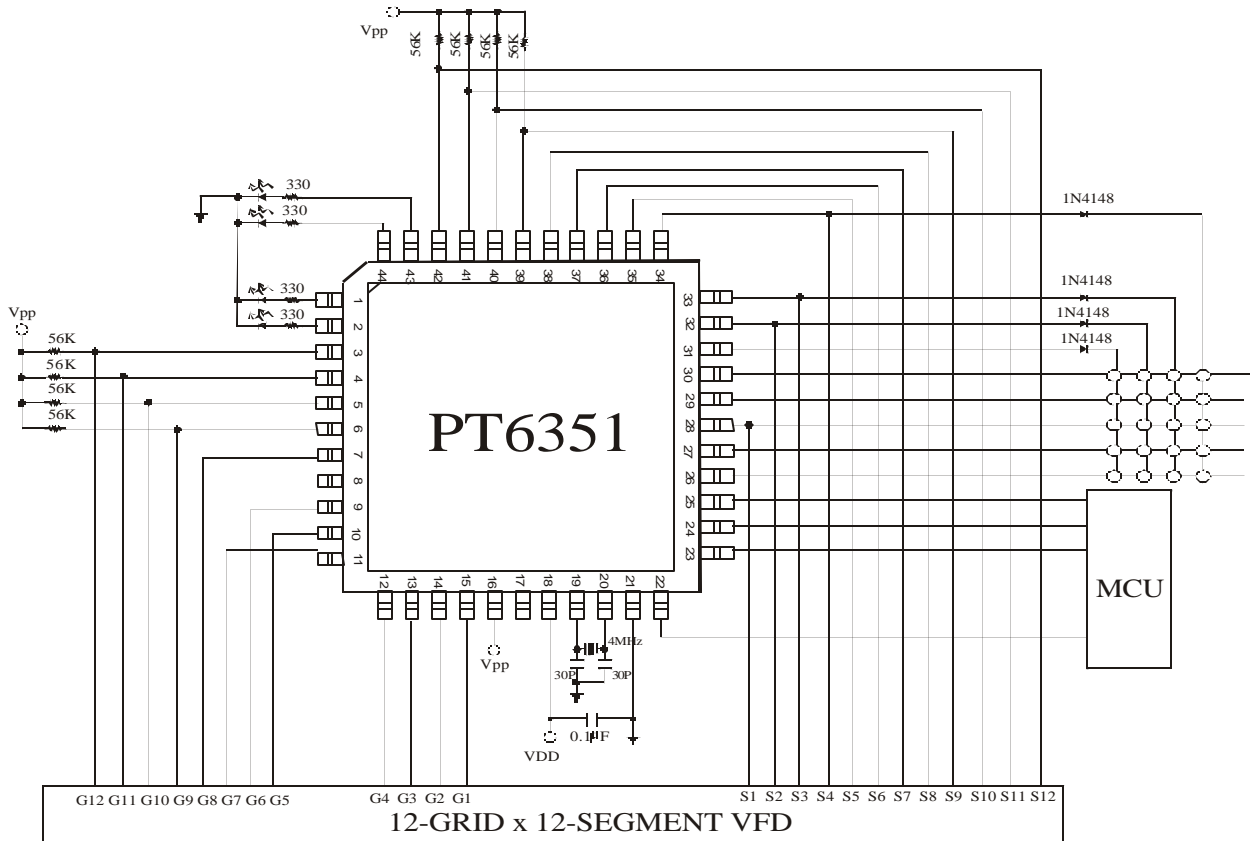
**PIN CONFIGURATION**



VFD Driver/Controller IC

**PT6351**

**APPLICATION CIRCUIT**



Note: The capacitor (0.1μF) connected between the GND and the VDD pins must be located as close as possible to the PT6351 chip.

