

## Nonvolatile Memory 1-Kbit E<sup>2</sup>PROM

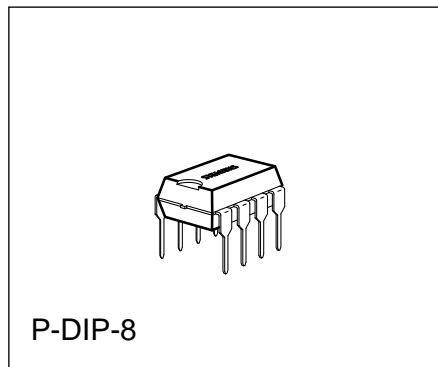
SDA 2506-5

### Preliminary Data

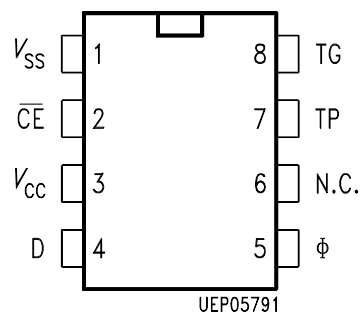
MOS IC

#### Features

- Word-organized, reprogrammable nonvolatile memory in n-channel floating-gate technology
- 128 × 8-bit organization
- Supply voltage 5 V
- Three lines between control processor and E<sup>2</sup>PROM for data transfer and chip control
- Serial data bus (eight data bits, seven address bits, one control bit)
- More than 10<sup>4</sup> reprogramming cycles per address
- Data retention for more than ten years (operating-temperature range)
- Unlimited number of readout operations without refresh
- Erase or write in 10 ms
- Temperature range 0 to 70 °C



| Type       | Ordering Code | Package |
|------------|---------------|---------|
| SDA 2506-5 | Q67100-H5090  | P-DIP-8 |



## Pin Configuration

(top view)

### Pin Definitions and Functions

| Pin No. | Symbol          | Function                                                                                             |
|---------|-----------------|------------------------------------------------------------------------------------------------------|
| 1       | $V_{SS}$        | Ground                                                                                               |
| 2       | $\overline{CE}$ | $\overline{CE} = 1$ for control-world input<br>$\overline{CE} = 0$ for reprogramming and data output |
| 3       | $V_{CC}$        | Supply voltage + 5 V                                                                                 |
| 4       | D               | Bidirectional data input/output line,<br>for reprogramming:<br>D = 1 erase<br>D = 0 write            |
| 5       | $\Phi$          | Clock                                                                                                |
| 6       | N.C.            | Not connected (open)                                                                                 |
| 7       | TP              | Test pin ( $V_{SS}$ )                                                                                |
| 8       | TG              | Test pin (open)                                                                                      |