## **SIEMENS**

## 4 Kbit (512 $\times$ 8 bit) Serial CMOS EEPROMs, Serial Peripheral Interface (SPI) Synchronous Bus

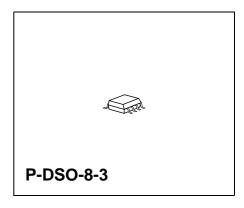
SLx 25C040

## **Preliminary**

## **Features**

- Serial peripheral interface (SPI) compatible, supports SPI Modes 0,0 and 1,1
- Page Protection Mode<sup>™</sup> for protecting the EEPROM against unintended data changes (SLx 25C040.../P types only)
- Low power CMOS
- Clock frequency up to 2.1 MHz
- $V_{\rm cc}$  = 2.7 to 5.5 V operation
- 8-byte page mode
- Write protect (WP) pin and write disable instruction for both hardware and software data protection
- Block write protection
  - Protect 1/4, 1/2 or entire array
- Filtered inputs for noise suppression with Schmitt trigger
- · High programming flexibility
  - Internal programming voltage
  - Self timed write cycle including erase (5 ms typical) for up to 8 bytes
  - Byte-write and page-write programming, between 1 and 8 bytes
- · High reliability
  - Endurance 10<sup>6</sup> cycles<sup>1)</sup>
  - Data retention 40 years<sup>1)</sup>
  - ESD protection > 4000 V on all pins
- 8 pin DIP/DSO packages
- Available for extended temperature ranges
  - Industrial: 40 °C to + 85 °C
    Automotive: 40 °C to + 125 °C
    - (-40 °C to +150 °C on request)

P-DIP-8-4



Values are temperature dependent, for further information please refer to your Siemens sales office.