

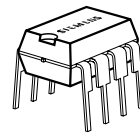
8 Kbit (1024 × 8 bit) Serial CMOS EEPROMs, Serial Peripheral Interface (SPI) Synchronous Bus

SLx 25C080

Preliminary

Features

- Serial peripheral interface (SPI) compatible, supports SPI Modes 0,0 and 1,1
- Page Protection Mode™ for protecting the EEPROM against unintended data changes (SLx 25C080.../P types only)
- Low power CMOS
- Clock frequency up to 2.1 MHz
- $V_{CC} = 2.7$ to 5.5 V operation
- 32-byte page mode
- Write protect (\overline{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 32 bytes
 - Byte-write and page-write programming, between 1 and 32 bytes
- High reliability
 - Endurance 10^6 cycles¹⁾
 - Data retention 40 years¹⁾
 - 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



P-DSO-8-3

¹⁾ Values are temperature dependent, for further information please refer to your Siemens sales office.