

## Intelligent 64 byte EEPROM KK2814 with write protect function

### Features

- Internally Organized Memory 64 x 8
- Two-wire Serial Interface
- Bidirectional Data Transfer Protocol
- Byte Write Modes
- 2-byte Page Write Modes
- Write Protection Memory
- Self-timed Write/Erase Cycle (20 ms max)
- Endurance: 100000 Cycles
- Data Retention: 10 years
- On-chip Charge Pump for Programming
- Answer to Reset
- Chip Size 2,1 mm x 2,2 mm
- Operation Range from -40°C to +70°C

### DC Characteristics

| Parametr, Units                                      | Symbol           | Min                   | Max | Test Condition                                                              |
|------------------------------------------------------|------------------|-----------------------|-----|-----------------------------------------------------------------------------|
| Supply Voltage, V                                    | V <sub>cc</sub>  | 4,5                   | 5,5 |                                                                             |
| Standby Current, $\mu$ A                             | I <sub>sb</sub>  |                       | 110 | V <sub>cc</sub> = 5,5 V<br>V <sub>ih</sub> = 5,5 V<br>V <sub>il</sub> = 0 V |
| Input Leakage Current Low Level, $\mu$ A             | I <sub>lil</sub> |                       | -10 | V <sub>il</sub> = 0 V                                                       |
| Input Leakage Current High Level, $\mu$ A (SCL, RST) | I <sub>lih</sub> |                       | 10  | V <sub>ih</sub> = 5,5 V                                                     |
| Input Leakage Current High Level, $\mu$ A (TEST)     | I <sub>lih</sub> |                       | 100 | V <sub>ih</sub> = 5,5 V                                                     |
| Output Leakage Current High Level, $\mu$ A           | I <sub>loh</sub> |                       | 10  | V <sub>oh</sub> = 5,5 V                                                     |
| Input Low Level Voltage, V                           | V <sub>il</sub>  |                       | 0,8 |                                                                             |
| Input High Level Voltage, V                          | V <sub>ih</sub>  | V <sub>cc</sub> - 0,8 |     |                                                                             |
| Output Low Level Voltage, V                          | V <sub>ol</sub>  |                       | 0,4 | I <sub>ol</sub> = 2,1 mA<br>V <sub>cc</sub> = 4,5 V                         |
| Clock Frequency, kHz                                 | f <sub>c</sub>   |                       | 100 |                                                                             |

**Pin Configurations**

| Pad number | Coordinates, mm |       | Pin Name | Function       |
|------------|-----------------|-------|----------|----------------|
|            | X               | Y     |          |                |
| 01         | 0.130           | 0.362 | SDA      | Serial Data    |
| 02         | 1.938           | 0.357 | TEST     | Test input     |
| 03         | 1.938           | 0.808 | SCL      | Serial Clock   |
| 04         | 1.938           | 1.307 | RST      | Reset          |
| 05         | 1.938           | 1.833 | Vcc      | Supply Voltage |
| 06         | 0.137           | 1.815 | GND      | Ground         |