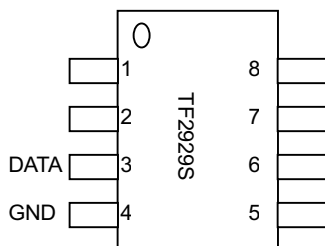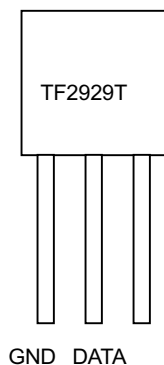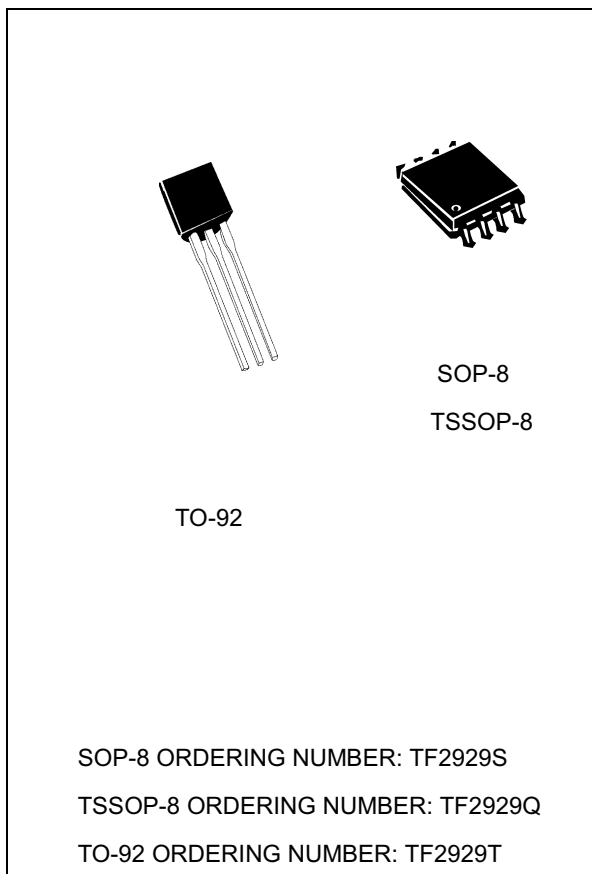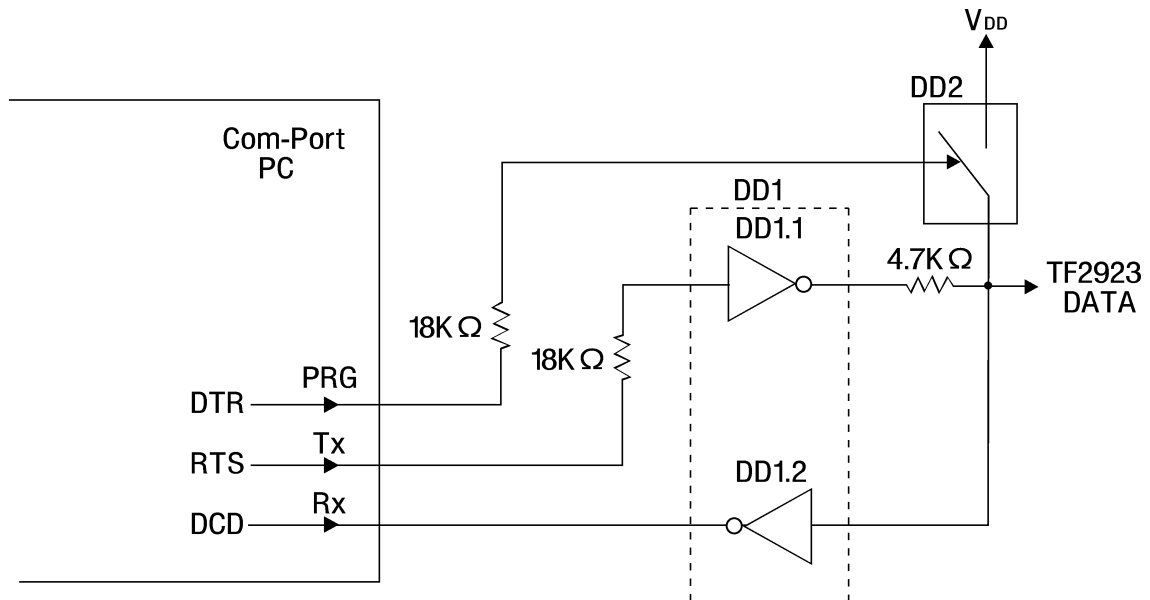# 1024 BIT ADD-ONLY EEPROM

Features

- 1024 bits EEPROM communicates with the economy of one signal plus ground
- Unique, one-time write protection 64-bit registration number (8-bit family code+48-bit serial number+8 bit CRC tester) assures absolute tractability because no two parts are alike
- EEPROM partitioned into four 256-bit pages for randomly accessing packetized data records
- Each memory page can be permanently write-protected to prevent tampering
- Reduces control, address, data, power, and programming signals to a single data pin
- Directly connects to a single port pin of a microprocessor and communicates at up to 16.3k bits per second
- Write voltage range of 4.0V to 4.5V from:
        -10°C to +60°C
- Read voltage range of 2.5V to 5.3V from:
        -10°C to +60°C

SOP-8

TSSOP-8

TO-92

SOP-8 ORDERING NUMBER: TF2929S

TSSOP-8 ORDERING NUMBER: TF2929Q
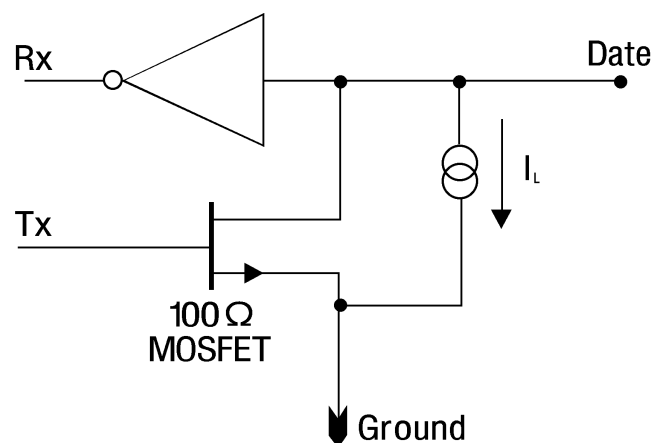
TO-92 ORDERING NUMBER: TF2929T

TF2929T
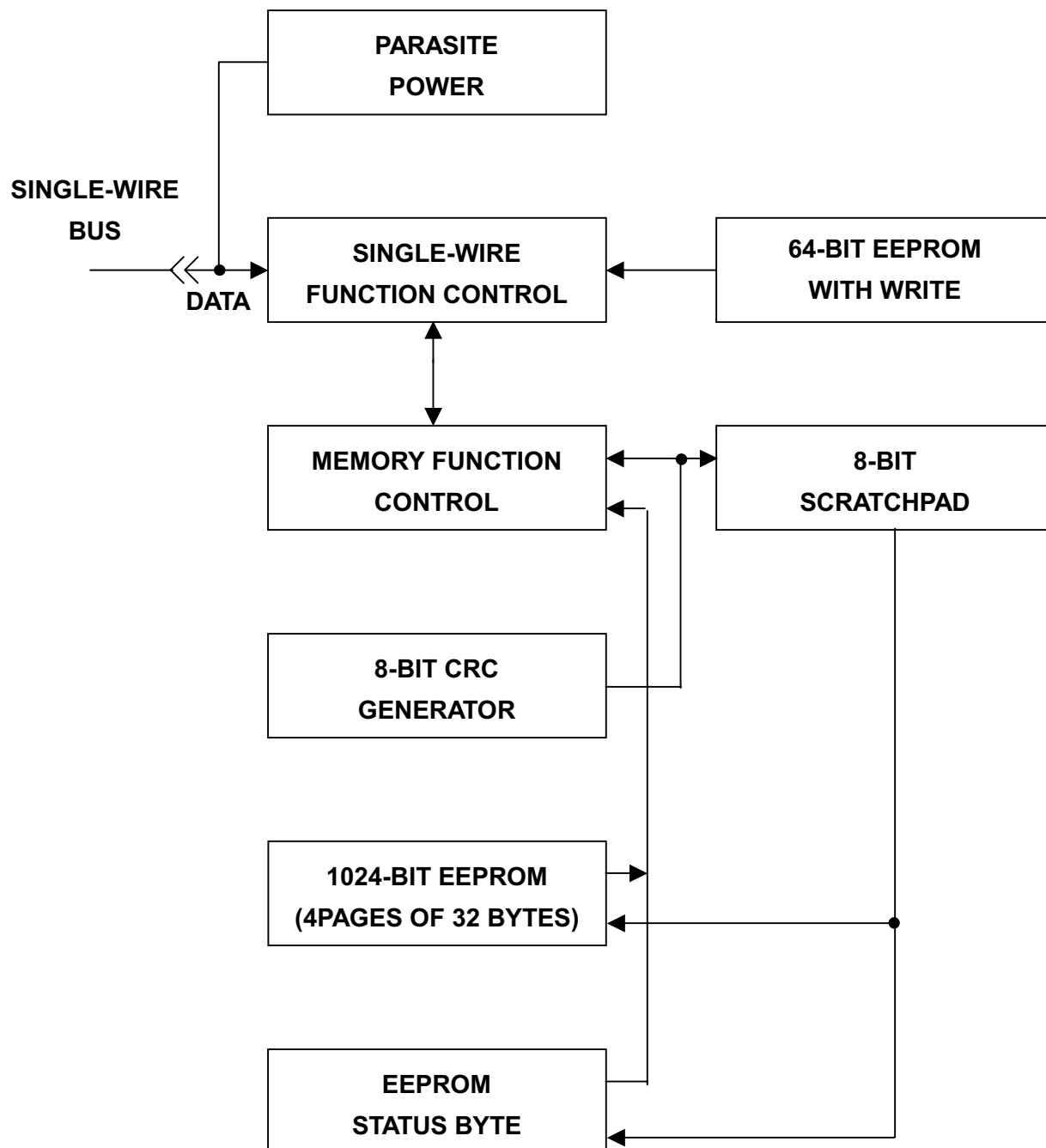
GND   DATA
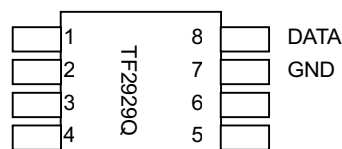
Electrical Circuit of Writer for TF2929

DD1 – CD4049

DD2 – CD4066

TF2929 Equivalent Circuit

Block Diagram

Memory structure

STARING
ADDRESS

8-BIT SCRATCHPAD

1024-BIT
EEPROM

0000h

PAGE0 32BYTES

0020h

PAGE1 32BYTES

0040h

PAGE2 32BYTES

0060h

PAGE3 32BYTES

EEPROM STATUS BYTE

ADDRESS:0007h (MSB)	0006h	0005h	0004h	0003h	0002h	0001h	0000h (LSB)
7	6	5	4	3	2	1	0
NOT USED							

BIT0 WRITE PROTECT PAGE0
BIT1 WRITE PROTECT PAGE1
BIT2 WRITE PROTECT PAGE2
BIT3 WRITE PROTECT PAGE3