ClockRadio_6x18SegDisp_I2C

Block_Diagram

Ruralguru Projects

V6P0 @ 2.16 A

V6P0 @ 72 mA

TPS562219A
– Output 3.3V (Max Current 2A)
–Efficiency: ~60% at 42 mA
–Operating Current: 0.9 mA

V6P0 @ 2.24 A

V3P3 @ 42.28 mA

System Connector:
– ESHF–105–01–L–D–TH
– V6P0 @ 4.6A MAX
– I2C (SDA & SCL)
– Display OE
– Lux INT
– Ext CLK

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

BL–S230B–13B–11 (2.7V)
(x16+2) segment 20mA

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

BL–S230B–13B–11 (2.7V)
(x16+2) segment 20mA

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

BL–S230B–13B–11 (2.7V)
(x16+2) segment 20mA

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

BL–S230B–13B–11 (2.7V)
(x16+2) segment 20mA

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

BL–S230B–13B–11 (2.7V)
(x16+2) segment 20mA

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

BL–S230B–13B–11 (2.7V)
(x16+2) segment 20mA

PCA9685 (3.3V 6mA)
(x16) LED driver pins 25mA sink
I2C 1MHz

TSL2591 (3.3V 0.28mA)
I2C 400kHz