

Bill of Materials

TI DESIGNS

TIDA-00846

Designator	Description	Manufacturer	PartNumber	Quantity
C1	CAP, CERM, 4.7 μF, 50 V, +/- 10%, X5R, 0805	TDK	C2012X5R1H475K125AB	1
C2	CAP, CERM, 4.7 μF, 10 V, +/- 10%, X5R, 0603	TDK	CGB3B1X5R1A475K055AC	1
C3	CAP, CERM, 2.2 μF, 10 V, +/- 10%, X5R, 0603	Kemet	C0603C225K8PACTU	1
C4	CAP, CERM, 0.01 μF, 10 V, +/- 10%, X7R, 0603	AVX	0603ZC103KAT2A	1
C5, C6, C8, C9, C10, C11, C12, C14, C15, C16, C17, C18	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	AVX	06031C103JAT2A	12
C7, C13	CAP, CERM, 1 μF, 50 V, +/- 10%, X7R, 0805	TDK	C2012X7R1H105K125AB	2
D1	Diode, Schottky, 40V, 1A, SMB	International Rectifier	10BQ040TRPBF	1
D2	Diode, TVS, Bi, 30 V, 400 W, SMA	Littelfuse	SMAJ30CA	1
D3	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	Diodes Inc.	1N4148W-7-F	1
D4	LED, Red, SMD	Lite-On	LTST-C170KRKT	1
D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25	LED, Red, SMD	OSRAM	LR G6SP-CBEA-1-1	21
H1, H2, H3, H4	Bumpon, Hemisphere, 0.44 X 0.20, Clear	3M	SJ-5303 (CLEAR)	4
J1	Terminal Block, 2-pole, 200mil, TH	On-Shore Technology	OSTTC022162	1
J2, J4	Header, 100mil, 2x1, Gold, TH	Samtec	HMTSW-102-07-G-S-240	2
J3	Header, 2mm, 3x1, Tin, TH	Samtec	TMM-103-01-T-S	1
J5	Header, 100mil, 1pos, Gold, TH	Samtec	TSW-101-07-G-S	1
Q1	Transistor, PNP, 45 V, 0.1 A, SOT-23	Diodes Inc.	BC857C-7-F	1
R1	RES, 120 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW0603120KJNEA	1
R2	RES, 604 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603604KFKEA	1
R3	RES, 100 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603100KFKEA	1
R4, R12, R19	RES, 10 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060310K0JNEA	3
R5	RES, 1.0 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06031K00JNEA	1
R6	RES, 3.3 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06033K30JNEA	1
R7, R17, R21, R23	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	4
R8, R18	RES, 49.9 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060349K9FKEA	2
R9, R10, R11	RES, 35.7 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060335K7FKEA	3
R13	RES, 3.05 k, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD073K05L	1
R14, R15, R16	RES, 10.5 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310K5FKEA	3
R20, R25	RES, 10.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310K0FKEA	2
R22	RES, 12.1 k, 0.5%, 0.1 W, 0603	Yageo America	RT0603DRE0712K1L	1
R24	RES, 2.00 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06032K00FKEA	1
TP1	Test Point, Miniature, White, TH	Keystone	5002	1
U1	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A	Texas Instruments	TPS7B6950QDBV	1
U2	LinCMOS Timer, D0008A	Texas Instruments	TLC555-Q1	1
U3	40V/100mO Single Channel Smart High Side Switch, Automotive Qualified, PWP0014C	Texas Instruments	TPS1H100AQPWPRQ1	1
U4	Three-Channel Linear LED Driver with Analog and PWM Dimming, PWP0016F	Texas Instruments	TPS92630QPWPRQ1	1
U5	Eight-Channel Linear LED Driver with PWM Dimming, PWP0020B	Texas Instruments	TPS92638QPWPRQ1	1

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