



Bill of Materials for the 40WLEDBULBGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R1	1	Resistor SMD	510k, 1/8th W	5%	0805	Any	Any	Yes	Yes
R2	1	Resistor SMD	412, 1/8th W	1%	0805	Any	Any	Yes	Yes
R3	1	Resistor SMD	51k, 1/8th W	1%	0805	Any	Any	Yes	Yes
R4	1	Resistor SMD	360, 1/8th W	1%	0805	Any	Any	Yes	Yes
R5	1	Resistor SMD	10k, 1/8th W	5%	0805	Any	Any	Yes	Yes
R6, R7, R8	3	Resistor SMD	100k, 1/8th W	5%	0805	Any	Any	Yes	Yes
C1	1	Capacitor SMD	10nF, 250 V	20%	0805	Any	Any	Yes	Yes
C2	0	DNP	10nF	10%	Through Hole	Würth Electronics Inc	-	Yes	Yes
BD1	1	Bridge Rectifier	N/A	N/A	TO-269AA	Vishay	MB6S-E3/80	Yes	Yes
D3	1	Diode SMD	62 Vz	5%	SOD-123	ON Semiconductor	MMSZ5265BT1G	No	Yes
D4	1	Diode SMD	N/A	N/A	SOD-323	ON Semiconductor	BAS21HT1G	No	Yes
D5-D10	6	SMD LED	24V	N/A	2-SMD	Cree	XTEHVW-H0-0000-00000LD51	No	Yes
Q1, Q5	2	PNP Bipolar Transistor SMD	N/A	N/A	SOT-23	ON Semiconductor	MMBT5401LT1G	No	Yes
Q2	1	NPN Bipolar Transistor SMD	N/A	N/A	SOT-23	ON Semiconductor	MMBT3904LT1G	No	Yes
Q3, Q4	1	NPN Bipolar Transistor SMD	N/A	N/A	SOT-23	ON Semiconductor	MMBT5551LT1G	No	Yes
CCR1, CCR2	2	Constant Current Regulator SMD	120V, 30mA	15%	SMB	ON Semiconductor	NSIC2030JB	No	Yes
CCR3	1	Constant Current Regulator SMD	120V, 20mA	15%	SMB	ON Semiconductor	NSIC2020JB	No	Yes
F1	1	Fuse SMD	1.5A, 250V	N/A	2-SMD	Littelfuse	044301.5DR	Yes	Yes
MOV1	1	Varistor SMD	198V, 250A	N/A	2-SMD	Littelfuse	V220CH8T	Yes	Yes
L1	1	Resistor SMD	0, 1/8th W	NA	1206	Any	Any	Yes	Yes