

PMP7753

PMP7753 BOM



Literature Number:SNVR006

Engineering Bill of Materials

Project Name:	120Vac 30W LED Driver
Project File:	NSC1045.PrjPCB
Base ID:	xxxxxx
PCB Revision:	-001 REV A
Assembly Variant:	-100A
Schematic Rev:	3
Build Quantity:	
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PCB Part Number: 551xxxxx-001 REV A

Designator	CompType	Value	PackageReference	Description	Manufacturer	PartNumber
BR1	Bridge Diode	400V	MiniDip	Diode Bridge	Diodes Inc.	HD-04
C1	Capacitor	0.01uF		Capacitor, Film X2, 12.5MM, 250Vac, 20% 0.01uF	Panasonic	B32921C3103M
C2	Capacitor	0.01uF		Capacitor, Film X2, 12.5MM, 250Vac, 20% 0.01uF	Panasonic	B32921C3103M
C3	Capacitor	4.7uF	1206	Ceramic, X7R, 25V, 10%	TDK	C3216X7R1E475K
C4	Capacitor	22uF	1206	Ceramic, X5R, 16V, 20%	MuRata	GRM31CR61C226ME15L
C5	Capacitor	33uF	10x20	AL, 200V, 20%, 0.542573 Ohm ESR	Panasonic	EEUED2D330
C6	Capacitor	33uF	10x20	AL, 200V, 20%, 0.542573 Ohm ESR	Panasonic	EEUED2D330
C7	Capacitor	10000pF	Though Hole	Ceramic, X7R, 250V, 10%	TDK	FK24X7R2E103K
C8	Capacitor	10uF	1210	Ceramic, X7R, 25V, 20%	TDK	C3225X7R1E106M
C9	Capacitor	10uF	1210	Ceramic, X7R, 25V, 20%	TDK	C3225X7R1E106M
C10	Capacitor	0.1uF	0805	Ceramic, X7R, 25V, 10%	TDK	C2012X7R1E104K
C11	Capacitor	330pF	0805	Ceramic, C0G/NP0, 100V, 5%	AVX	08051A331JAT2A
C13	Capacitor	1uF	0805	Ceramic, X5R, 25V, 10%	TDK	C2012X5R1E105K
C14	Capacitor	0.22uF	0805	Ceramic, X7R, 16V, 10%	TDK	C2012X7R1C224K
C15	Capacitor	open	0805			
C16	Capacitor	open	0805			
C17	Capacitor	0.22uF	0805	Ceramic, X7R, 25V, 10%	TDK	C2012X7R1E224K
C18	Capacitor	1000pF	1808		Syfer	1808JA250102KXBSY2
C19	Capacitor	0.1uF	0805	Ceramic, X7R, 25V, 10%	TDK	C2012X7R1E104K
C20	Capacitor	470uF	10x20		Sanyo	35ME470WX
D2	Zener	11V	SOD-123	SMT Zener Diode	Diodes Inc.	MMSZ5241B-7-F
D3	Diode	200V	PowerDI123	Vr = 200V, Io = 1A, Vf = 0.85V	Diodes Inc.	DFLS1200-7
D4	Diode	200V	PowerDI123	Vr = 200V, Io = 1A, Vf = 0.85V	Diodes Inc.	DFLS1200-7
D5	Diode	200V	PowerDI123	Vr = 200V, Io = 1A, Vf = 0.85V	Diodes Inc.	DFLS1200-7
D6	Diode	200V	PowerDI123	Vr = 200V, Io = 1A, Vf = 0.85V	Diodes Inc.	DFLS1200-7

Designator	CompType	Value	PackageReference	Description	Manufacturer	PartNumber
D7	Diode	100V	SOD-123	Vr = 100V, Io = 0.15A, Vf = 1.25V	Diodes Inc.	1N4148W-7-F
D8	Diode	100V	SOD-123	Vr = 100V, Io = 0.15A, Vf = 1.25V	Diodes Inc.	1N4148W-7-F
D9	Zener	12V	SOD-123	SMT Zener Diode	Diodes Inc.	MMSZ5242B-7-F
D10	Diode	100V	DPAK	Vr = 100V, Io = 12A, Vf = 0.95V	Vishay-Semiconductor	12CWQ10FNPBF
D11	Diode	100V	SOD-123	Vr = 100V, Io = 0.15A, Vf = 1.25V	Diodes Inc.	1N4148W-7-F
D12	Zener	27V	SMA	SMT Zener Diode	Central Semiconductor	CMZ5931B LEAD FREE
D13	Diode	open	SMA			
D14	Zener	open	SMA			
L1	Common Mode Choke	1.3mH		Common Mode Choke, 700mA, 1.3mH	Gci Technologies	UU9.8V-132LF
M1	MOV	460Vrms			Vishay	BC1400
Q1	BJT	40V	SOT-23	PNP, 0.2A, 40V	Central Semiconductor	CMPT3906 LEAD FREE
Q2	MOSFET	240V	SOT-223		NXP	BSP89
Q3	MOSFET	600V	TO-220		ST	STP8NM60ND
Q4	BJT	0.2V	SOT-23	NPN, 0.2A, 40V	Central Semiconductor	CMPT3904 LEAD FREE
R1	Resistor	402k	1206	1%, 0.25W	Vishay-Dale	CRCW1206402kFKEA
R2	Resistor	1.50Meg	1206	1%, 0.25W	Vishay-Dale	CRCW12061M50FKEA
R3	Resistor	196k	0805	1%, 0.125W	Vishay-Dale	CRCW0805196kFKEA
R4	Resistor	5.90k	0805	1%, 0.125W	Vishay-Dale	CRCW08055K90FKEA
R5	Resistor	1.00	1206	1%, 0.25W	Vishay-Dale	CRCW12061R00FNEA
R6	Resistor	1.00	1206	1%, 0.25W	Vishay-Dale	CRCW12061R00FNEA
R7	Resistor	1.0Meg	1206	5%, 0.25W	Vishay-Dale	CRCW12061M00JNEA
R8	Resistor	215k	0805	1%, 0.125W	Vishay-Dale	CRCW0805215kFKEA
R9	Resistor	0	0603	5%, 0.1W	Vishay-Dale	CRCW06030000Z0EA
R10	Resistor	1.00k	0805	1%, 0.125W	Vishay-Dale	CRCW08051K00FKEA
R11	Resistor	0.2	1206	1%, 0.25W	Panasonic	ERJ-8RQFR22V
R12	Resistor	0.2	1206	1%, 0.25W	Panasonic	ERJ-8RQFR22V
R13	Resistor	10.0k	0805	1%, 0.125W	Vishay-Dale	CRCW080510K0FKEA
R14	Resistor	71.5k	0805	1%, 0.125W	Vishay-Dale	CRCW080571K5FKEA
R15	Resistor	10.0k	0805	1%, 0.125W	Vishay-Dale	CRCW080510K0FKEA
R16	Resistor	1.00k	0805	1%, 0.125W	Vishay-Dale	CRCW08051K00FKEA
R17	Resistor	4.99k	0805	1%, 0.125W	Vishay-Dale	CRCW08054K99FKEA
R18	Resistor	1.00k	0805	1%, 0.125W	Vishay-Dale	CRCW08051K00FKEA
R19	Resistor	4.99k	0805	1%, 0.125W	Vishay-Dale	CRCW08054K99FKEA
R20	Resistor	10.0k	0805	1%, 0.125W	Vishay-Dale	CRCW080510K0FKEA
R21	Resistor	open				
R22	Resistor	open				
R23	Resistor	3.01	0603	1%, 0.1W	Vishay-Dale	CRCW06033R01FKEA
RT1	Thermistor	120V		Thermistor, 120V, 1.1A, 50Ohm@25C	GE Sensing	CL-140
T1	Transformer		EFD25	WE_750311562_10Pins Transformer	Würth	750311562
U1	PWM IC		MSOP10		National Semiconductor	LM3445MM
U2	Opto Coupler		FOD121	Optoisolator	NEC	PS2501L-1H

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U3	OpAmp IC	LM321MF	MF05A_L	Low Power Single Op Amp	National Semiconductor	LM321MF
U4	MiscPower		MF03A	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator	National Semiconductor	LMV431AIMF

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