

PMP7757

PMP7757 BOM



Literature Number:SNVR014

NSC1036 LM3409 34-38Vin to 6A @29V battery charger 12/2/09

Designator	Value	Comment	Description	Footprint	PartNumber	Manufacturer
C1	10uF	C5750X7R1H106M	Ceramic, X7R, 50V, 20%	2220	C5750X7R1H106M	TDK
C2	10uF	C5750X7R1H106M	Ceramic, X7R, 50V, 20%	2220	C5750X7R1H106M	TDK
C3	1uF	GRM219R61A105MA01D	Ceramic, X5R, 10V, 20%	0805	GRM219R61A105MA01D	MuRata
C4	1uF	GRM219R61A105MA01D	Ceramic, X5R, 10V, 20%	0805	GRM219R61A105MA01D	MuRata
C5	470pF	VJ0805Y471KXACW1BC	Ceramic, X7R, 50V, 10%	0805	VJ0805Y471KXACW1BC	Vishay-Bccomponents
C6	22uF,25V	C3225X5R1E226	Ceramic, X7R, 50V, 20%	2220	C3225X5R1E226	TDK
C7	1uF	GRM219R61A105MA01D	Ceramic, X5R, 10V, 20%	0805	GRM219R61A105MA01D	MuRata
C8	390pF	08055A391JAT2A	Ceramic, C0G/NP0, 50V, 5%	0805	08055A391JAT2A	AVX
C10	0.1uF	08053C104KAT2A	Ceramic, X7R, 25V, 10%	0805	08053C104KAT2A	AVX
C11	0.1uF	08053C104KAT2A	Ceramic, X7R, 25V, 10%	0805	08053C104KAT2A	AVX
C12	1uF	GRM219R61A105MA01D	Ceramic, X5R, 10V, 20%	0805	GRM219R61A105MA01D	MuRata
D1		12CWQ10FNPBF	Vr = 100V, Io = 12A, Vf = 0.95V	DPAK	12CWQ10FNPBF	Vishay-Semiconductor
D2		12CWQ04FNPBF	Vr = 100V, Io = 12A, Vf = 0.68V	DPAK	12CWQ04FNPBF	Vishay-Semiconductor
D4		BAT54-7-F	Vr = 30V, Io = 0.2A, Vf = 0.65V	SOT-23	BAT54-7-F	Diodes Inc.
D10	12V	BZX84C12	SMT Zener Diode	sod-323	BZX84C12	Diodes Inc.
L1	22uH	PB2020_223NL	Shielded Drum Core,	PB2020	PB2020_223NL	Pulse Engineering
Q1		SI4447DY	-	SOIC-8	SI4447DY	Vishay-Semiconductor
Q2		SI4447DY	-	SOIC-8	SI4447DY	Vishay-Semiconductor
Q3		SI4447DY	-	SOIC-8	SI4447DY	Vishay-Semiconductor
Q10		2N7002ET1G	0.26A, 0.81nC, rDS(on) @ 4.5V =3	SOT-23	2N7002ET1G	ON Semiconductor
Q11		2N7002ET1G	0.26A, 0.81nC, rDS(on) @ 4.5V =3	SOT-23	2N7002ET1G	ON Semiconductor
Q12		2N7002ET1G	0.26A, 0.81nC, rDS(on) @ 4.5V =3	SOT-23	2N7002ET1G	ON Semiconductor
R1	10.0k	CRCW080510k0FKEA	1%, 0.125W	0805	CRCW080510k0FKEA	Vishay-Dale
R2	150k	CRCW0805150kFKEA	1%, 0.125W	0805	CRCW0805150kFKEA	Vishay-Dale
R5	30.1k	CRCW080530k1FKEA	1%, 0.125W	0805	CRCW080530k1FKEA	Vishay-Dale
R8	10.0k	RT0805BRD0710KL	0.1%, 0.125W	0805	RT0805BRD0710KL	Yageo America
R9	1.0k	ERJ-6GEYJ102V	5%, 0.125W	0805	ERJ-6GEYJ102V	Panasonic
R10	3.57	CRCW08053R57FNEA	1%, 0.125W	0805_HV	CRCW08053R57FNEA	Vishay-Dale
R11	249k	RT0805BRD07249KL	0.1%, 0.125W	0805	RT0805BRD07249KL	Yageo America
R12	150k	CRCW0805150kFKEA	1%, 0.125W	0805	CRCW0805150kFKEA	Vishay-Dale
R13	10.0k	CRCW080510k0FKEA	1%, 0.125W	0805	CRCW080510k0FKEA	Vishay-Dale
R14	23.2k	CRCW080523k2FKEA	1%, 0.125W	0805	CRCW080523k2FKEA	Vishay-Dale
R15	10.0k	CRCW080510k0FKEA	1%, 0.125W	0805	CRCW080510k0FKEA	Vishay-Dale

R16	1.00Meg	CRCW08051M00FKEA	1%, 0.125W	0805	CRCW08051M00FKEA	Vishay-Dale
R17	1.00k	CRCW08051k00FKEA	1%, 0.125W	0805	CRCW08051k00FKEA	Vishay-Dale
R18	4.02k	CRCW08054k02FKEA	1%, 0.125W	0805	CRCW08054k02FKEA	Vishay-Dale
R19	23.2k	CRCW080523k2FKEA	1%, 0.125W	0805	CRCW080523k2FKEA	Vishay-Dale
R20	23.2k	CRCW080523k2FKEA	1%, 0.125W	0805	CRCW080523k2FKEA	Vishay-Dale
R21	150k	CRCW0805150kFKEA	1%, 0.125W	0805	CRCW0805150kFKEA	Vishay-Dale
R22	10.0k	CRCW080510k0FKEA	1%, 0.125W	0805	CRCW080510k0FKEA	Vishay-Dale
R23	1.00k	CRCW08051k00FKEA	1%, 0.125W	0805	CRCW08051k00FKEA	Vishay-Dale
R24	1.00k	CRCW08051k00FKEA	1%, 0.125W	0805	CRCW08051k00FKEA	Vishay-Dale
T11	100:01:00	PA1005100NL	Pulse current sense transformer SMT	p8208	PA1005100NL	Pulse Engineering
U1		LM3409	PFET buck controller for High Power LED drives	MSOP-10	LM3409	National Semiconductor
U10		LM2903MX	Low Power Low Offset Voltage Dual Comparator	M08A_N	LM2903MX	National Semiconductor
U11		LM4041CEM3-1.2	Precision Micropower Shunt Voltage Reference	MF03A_N	LM4041CEM3-1.2	National Semiconductor

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