

Bill of Materials

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Source Data From: E-Load Gen 2 Power Module Rev 3.PjrPcb
 Project: E-Load Gen 2 Power Module Rev 3.PjrPcb
 Variant: None

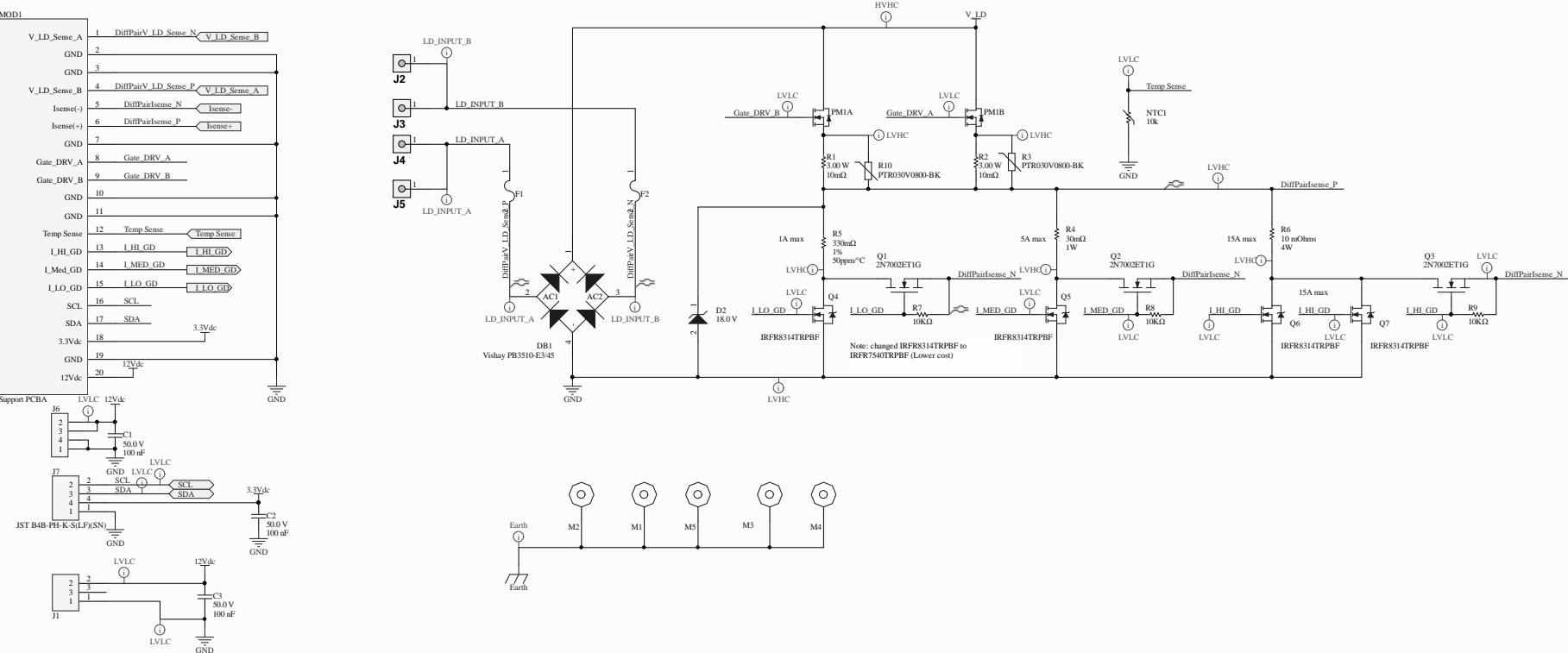
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 Production Quantity: 100
 Currency: CAD

Footprint	Comment	LibRef	Designator	Description	Quantity	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtotal 1	Manufacturer 1	Manufacturer Part Number 1
Cap.0805	Cap	C1, C2, C3		Capacitor; Ceramic; Cap 0.1 uF; Tol 5%; Vol.Rtg 50 VDC; SMT; 0805; X7R; Tape & Reel	3							
SOD123	MMS24705T1G	104JAT2A	D2	Zener Diode 18V 500mW ±5% Surface Mount SOD-123	1							
4-ESIP with Heat Sink	Vishay PB3510-E3/45	diode, bridge, 18V,500mW, SOD123,MMSZ 4705T1G	DB1	RECTIFIER BRIDGE 1000V 35A PB	1	Newark						
Fuse,TH,Vertical,0	FUSE	35A, 1000V, PB3510-E3/45	F1, F2	FUSE CERAMIC 30A 500VAC/VDC 3AB AC/VDC,Leaded	2							
505030.MXEP	CERAMIC 30A 500VAC/VDC 3AB											
Connector,TE,3-Pin, Male, Vert,2-644861-3	2-644861-3	Connector, through hole, TE, 3pin, 2.54mm,2-644861-3	J1	Connector Header Through Hole 3 position 0.100" (2.54mm)	1							
Keystone 8197	wire terminal, lugs, screw, Keystone 8197 conn, molex, 0.1", 4 pin	0022112042	J2, J3, J4, J5	wire terminal, lugs, screw, Keystone 8197 Connector,Through Hole,Molex,2.54 mm, 4Pin,Vert	4							
Conn, JST, 4 pin, 2mm spacing Right Angle	JST B4B-PH-K-S(LF)(SN)	Conn, connector, through hole, JST, 4pin, 2mm,B4B-PH-K-S(LF)(SN)	J6	WRIGHT TOOL 8197 Socket, 1 In Dr, 3-1/8 In, 12 Pt, Std. More details: Socket, Drive Size 1 In., Number of Points 12, ... Connector Header Through Hole 4 position 0.100" (2.54mm)	1							
Standoff,Hex,M3.8mm Mod,ELoad Gen 2 Rev 1 Support	M3 hex Standoff	Standoff, M3, Hex	M1, M2, M3, M4, M5	HEX STANDOFF M3.generic	5							
Mod,ELoad Gen 2 Rev 1 Support	Support PCBA	Mod,Eload Gen 2 rev 1 Support and Control	MOD1	Eload Gen 2 Support PCBA	1							
NTC,TH,2.54mm Lead Spacing,NTCLE10 0E3103JT2	NTCLE100E310 3JT2	NTC,10Kohm,0.7 5%, NTCLE100E310 3JT2	NTC1	NTCLE100E310 THERMISTOR NTC 10KOHM 3977K BEAD	1							
DUAL TO-247-RA WITH HEATSINK SOT23-3	Diode	2N7002ET1G	PM1	Dual RA Mosfet TO-247 with CPU cooler	1							
DPAK,3-Leads	Infineon IRFR8314TRPB F	MOSFET,N-Channel,SOT23,0.25A,60V,2N70 02ET1G	Q1, Q2, Q3	Small Signal MOSFET, 60 V, 310 mA, Single, N-Channel, 3-Pin SOT-23, Pb-Free, Tape & Reel	3	Digi-Key	2N7002ET1GOSCT-ND	0.12501	300	\$ 37.50	ON Semiconductor	2N7002ET1G
Res 2512	Res1	IRFR8314TRPB F	Q4, Q5, Q6, Q7	Single N-Channel 30 V 2.2 mOhm 36 nC HEXFET® Power Mosfet - DPAK	4							
Fuse,PTC,10mmPitch,Radial, Disc	PTR030V0800-BK	Res,2512,10mO ,3.00W,±1%,CR A2512-F2 R010ELF	R1, R2	Resistor; Metal Film; Res 0.01 Ohms; Pwr-Rtg 3 W; Tol 1%; SMT; 2512; Current Sense	2							
Shunt,2512,SMD, Kelvin conn	Ohmite LVM25FVR030 E-TR	Res, 2512, shunt, 30mΩ,1W, LVM25FVR030 E-TR	R3, R10	PTC RESET FUSE 30V 8A RADIAL	2	Digi-Key	PTR030V0800-BK-ND	0.67933	200	\$ 135.87	Eaton Bussmann	PTR030V0800-BK
Res,1206,0.330 Ohm,shunt,0.75 W,1%,50ppm,K RL1632E-M-R330-F-T5	Res,1206,0.330 Ohm,shunt,0.75 W,1%,50ppm,K RL1632E-M-R330-F-T5	Res,1206,0.330 Ohm,shunt,0.75 W,1%,50ppm,K RL1632E-M-R330-F-T5	R5	RES 0.33 OHM 1% 3/4W 1206	1	Digi-Key	408-1588-1-ND	0.23144	100	\$ 23.14	Susumu	KRL1632E-M-R330-F-T5
Res,2827,4W	CSSH2728FT10 L0	Res,2827,shunt, 10mΩ,1%,15pp m,CSSH2728FT 10L0	R6	10 mOhms ±1% 4W Chip Resistor Wide 2827 (7067 Metric), 2728 Automotive AEC-Q200, Current Sense Metal Foil	1							
res, 0805, HD	Vishay / Dale CRCW/080510K OFKTA	Res,0805,10.0k O,1%,100 ppm,CRCW080 510KOFKTA	R7, R8, R9	RES SMD 10K OHM 1% 1/8W 0805	3							

39

\$ 196.51

Approved Notes



Title		
Size	Number	Revision
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Date: 4/10/2021	Sheet of 1	
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