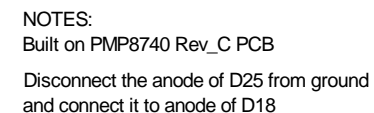


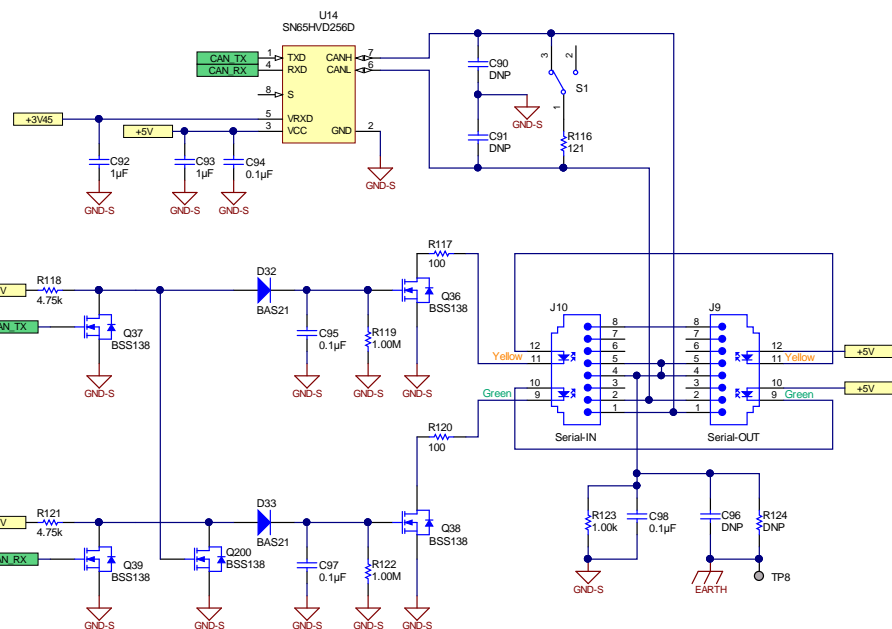
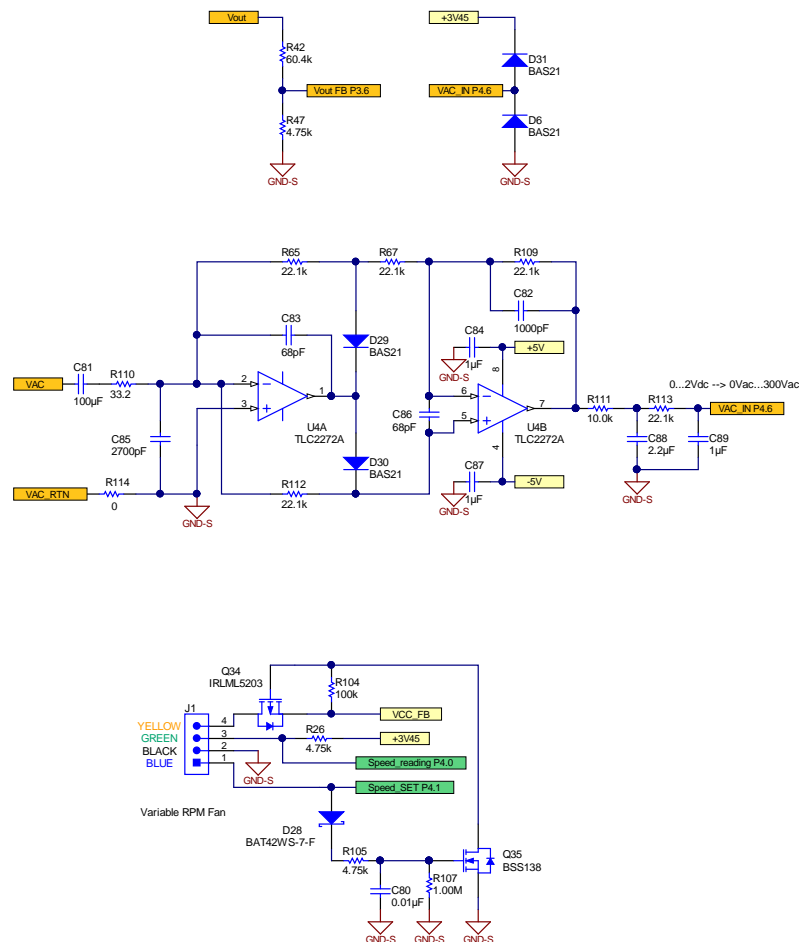
NOTES:

Built on PMP8740 Rev_C PCB
Ref. Des. > 199 have been added on the PCB

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Number: PMP8740	Rev: E	Designed for: Public Release	Mod. Date: 7/25/2019
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Project Title: 2kW Battery Charger	
Drawn By: R. Scibilia	File: PMP8740 2kW Rev. E Full Bridge Power Stage Schematic	Sheet Title: Full Bridge	Sheet: 1 of 4
Engineer: R. Scibilia	Contact: http://www.ti.com/support	DocType: http://www.ti.com	© Texas Instruments 2019





NOTES:
 Built on PMP8740 Rev_C PCB
 Ref. Des. > 199 have been added on the PCB
 Disconnect R112 from ground and connect it to pin 2 of U4A

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Number: PMP8740	Rev: E	Designed for: Public Release	Mod. Date: 7/25/2019
SVN Rev: Not in version control	Project Title: 2kW Battery Charger	Sheet Title: Full Bridge	Assembly Variant: [No Variations]
Drawn By: R. Scibilia	File: PMP8740 2kW Rev. E Full Bridge Control Section	Sheet 3 of 4	© Texas Instruments 2019
Engineer: R. Scibilia	Contact: http://www.ti.com/support		

J8 mounting screws

SC1
7985I04302

N1
MHNZ 004

HS1 ... HS4 assembly

SC5
1420390

LW1
MLWZ 003

MW1
MFWZ 003

NW1
3349

SC7
1420390

LW2
MLWZ 003

MW2
MFWZ 003

NW2
3349

SC9
1420390

LW3
MLWZ 003

MW3
MFWZ 003

NW3
3349

SC11
1420390

LW4
MLWZ 003

MW4
MFWZ 003

NW4
3349

Use NW1...4 to isolate all heat sinks
Use SC5...11, LW1...4 and MW1...4 for fixing

**Q8, Q9, Q15, Q16, Q21, Q22..
..Q23 and Q24 Assembly**

RS1
THFU 3

SP1
MECH
WSC3P

RS2
THFU 3

SP2
MECH
WSC3P

RS3
THFU 3

SP3
MECH
WSC3P

RS4
THFU 3

SP4
MECH
WSC3P

RS5
THFU 3

SP5
MECH
WSC3P

RS6
THFU 3

SP6
MECH
WSC3P

RS7
THFU 3

SP7
MECH
WSC3P

RS8
THFU 3

SP8
MECH
WSC3P

PCB mounting assembly

SC2
1420390

HSO1
R30-3000702

N2
MHNZ 003

SC3
1420390

HSO2
R30-3000702

N3
MHNZ 003

SC4
1420390

HSO3
R30-3000702

N4
MHNZ 003

SC6
1420390

HSO4
R30-3000702

N5
MHNZ 003

SC8
1420390

HSO5
R30-3000702

N6
MHNZ 003


SC10
1420390

HSO6
R30-3000702

N7
MHNZ 003

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Orderable:	Designed for: Public Release	Mod. Date: 7/25/2019
TID #:	Project Title: 2kW Battery Charger	
Number: PMP8740	Rev: E	Sheet Title: Hardware
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 4 of 4
Drawn By: R. Scibilia	File: PMP8740 2kW Rev. E Full Bridge Hardware.Sch	See: B
Engineer: R. Scibilia	Contact: http://www.ti.com/support	

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