



LED load:
 - max. 20W output power
 - max. 60V output voltage
 - max. 1.4A output current

ext. strip board added to PCB PMP4531 RevA

IID I/F, 80mA to 1.4A, di=+88mA:

 - BIAS current 80mA via R3, ideal 3.250 Ohm
 - CTR0 adds 88mA via R201, ideal 2.955 Ohm (=LSB)
 - CTR1 adds 176mA via R202, ideal 1.477 Ohm
 - CTR2 adds 352mA via R203, ideal 0.739 Ohm;
 - CTR3 adds 704mA via R204, ideal 0.370 Ohm (=MSB)

 ----> Q201,202=Si9926CDY w/ 15milliOhms

RevB:
 1) adjusted loop
 2) added gate resistor R100,
 placed externally

AUTOMOTIVE APPLICATION:
 1) Q1 controller
 2) all MLCCs in X7R
 3) both electrolytics 125c
 4) rectifier Q101
 5) HT inductors

NOTES:
 1) R6/R9 for test purposes only
 2) R6/R7/R10 = Voltage Control TPS40210
 R3/R9 = Current Control TPS40211
 3) built on PCB PMP4531RevA
 4) parts designators > 200 externally

Texas Instruments

Title			universal 20W LED driver		
Size	Number				Rev
B	PMP5518				B
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