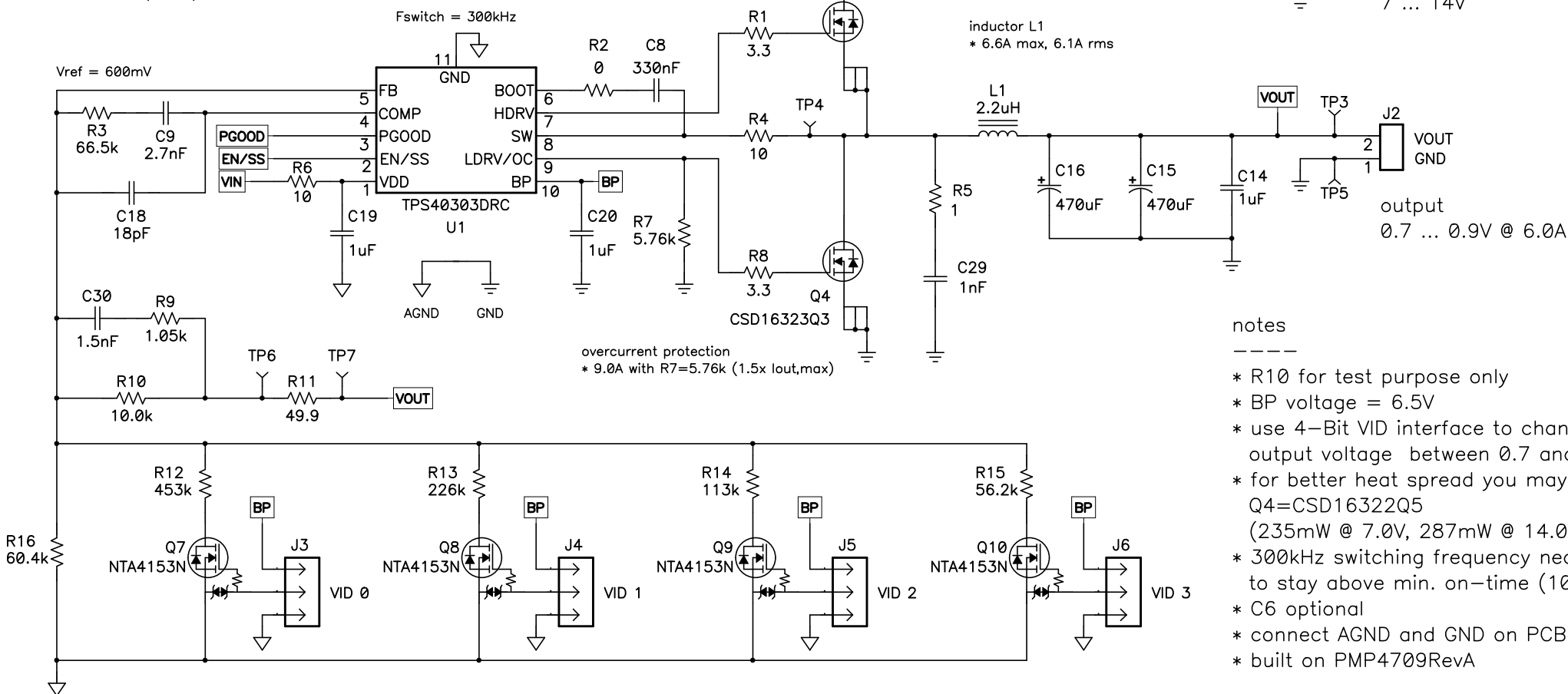


ENABLE

 * floating: ON
 * < 0.33V: OFF
 * set R17=267k for frequency spread spectrum feature

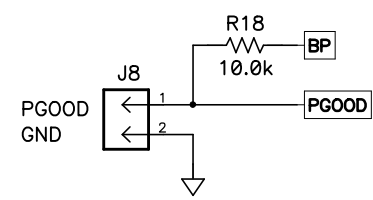
soft-start time

 * $C_{ss} = (10\mu A / 600mV) * t_{ss}$
 * 2.8ms startup time with C30=47nF



notes

- * R10 for test purpose only
- * BP voltage = 6.5V
- * use 4-Bit VID interface to change the output voltage between 0.7 and 0.9V
- * for better heat spread you may use Q4=CSD16322Q5 (235mW @ 7.0V, 287mW @ 14.0V)
- * 300kHz switching frequency necessary to stay above min. on-time (100ns)
- * C6 optional
- * connect AGND and GND on PCB
- * built on PMP4709RevA



losses

 * Q1 CSD16409Q3: 66mW @ 7.0V, 67mW @ 14.0V
 * Q4 CSD16323Q3: 234mW @ 7.0V, 286mW @ 14.0V
 * L1 MSS1048-222NLC: 292mW



Title			TPS40303 0.7...0.9V@6.0A		
Size	Number	Rev			
B	PMP4709	C			
Date	2/10/10	Drawn by		M. Ulmann	
Filename	PMP4709RevB.sch	Sheet		1 of 1	

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