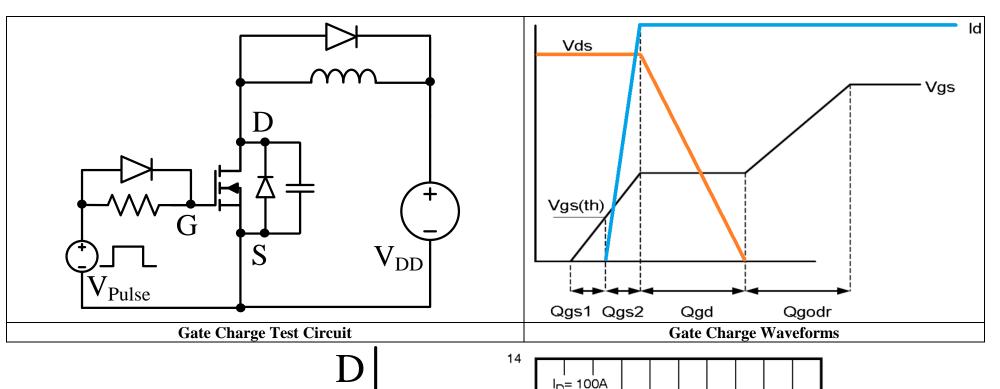
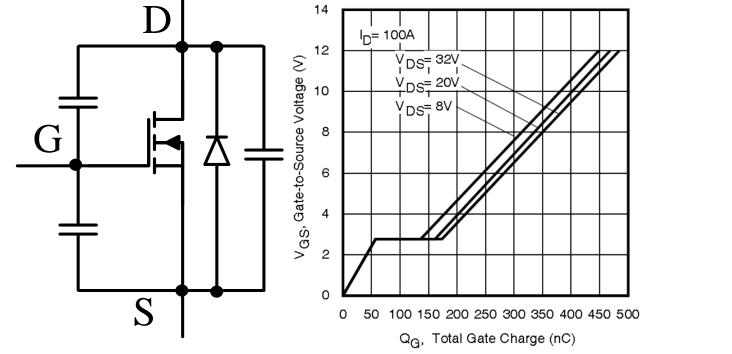
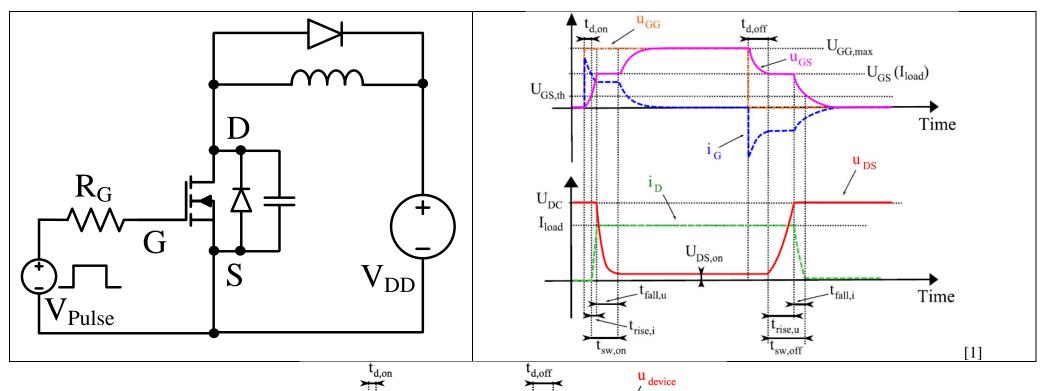
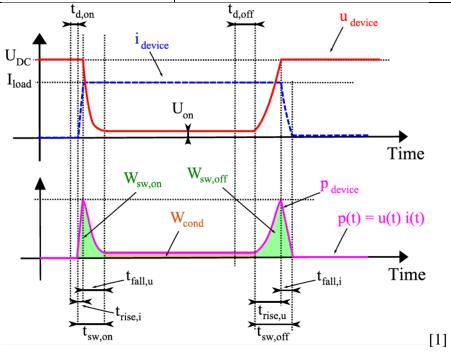
MOSFET

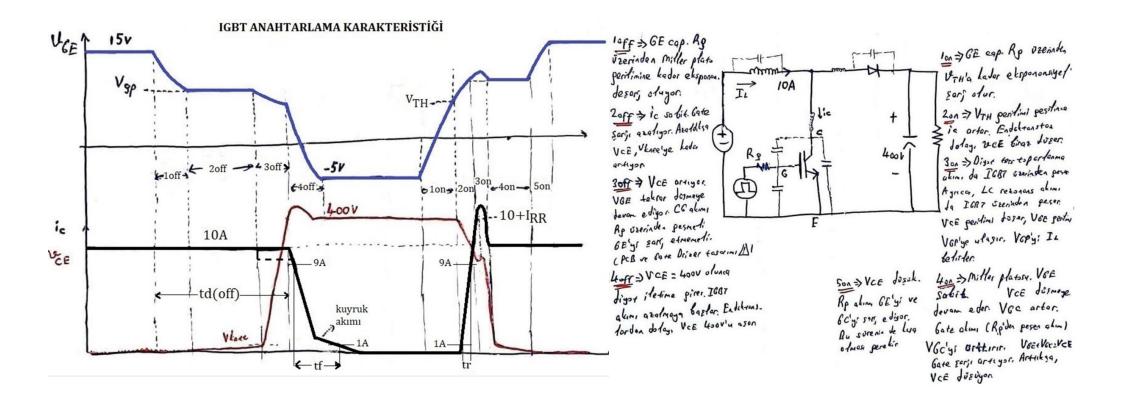
Dynamic	Electrical Characteristics @ T _J = 25°C (un	MOSFET	vice cne	cified)		
Symbol	Parameter	Min.	Тур.	Max.	Units	Conditions
gfs	Forward Transconductance	264			_	V _{DS} = 10V, I _D = 100A
Q _g	Total Gate Charge		205	307		I _D = 100A
Q _{gs}	Gate-to-Source Charge		57		1	V _{DS} = 20V
Q _{gd}	Gate-to-Drain Charge		104		nC	V _{GS} = 4.5V⑤
Q _{sync}	Total Gate Charge Sync. (Qg– Qgd)		101		1	
t _{d(on)}	Turn-On Delay Time		<mark>67</mark>		ns	V _{DD} = 20V
t _r	Rise Time		210			I _D = 30A
t _{d(off)}	Turn-Off Delay Time		222			$R_G = 2.7\Omega$
i _f)	Fall Time		176] (<mark>V_{GS} = 4.5V</mark> ⑤
	D VDD Pulse	90%— 10%— V _{GS} —				
-	Switching Time Test Circuit		td(on)	tr		t _{d(off)} t _f
	Switching Time Waveforms					

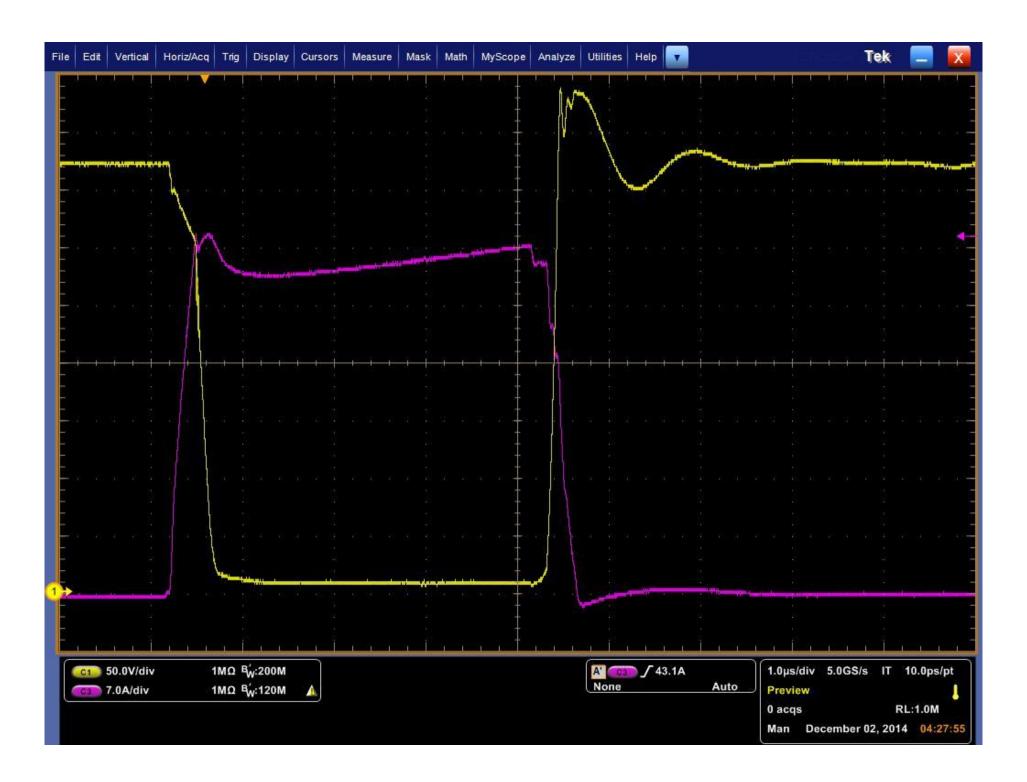


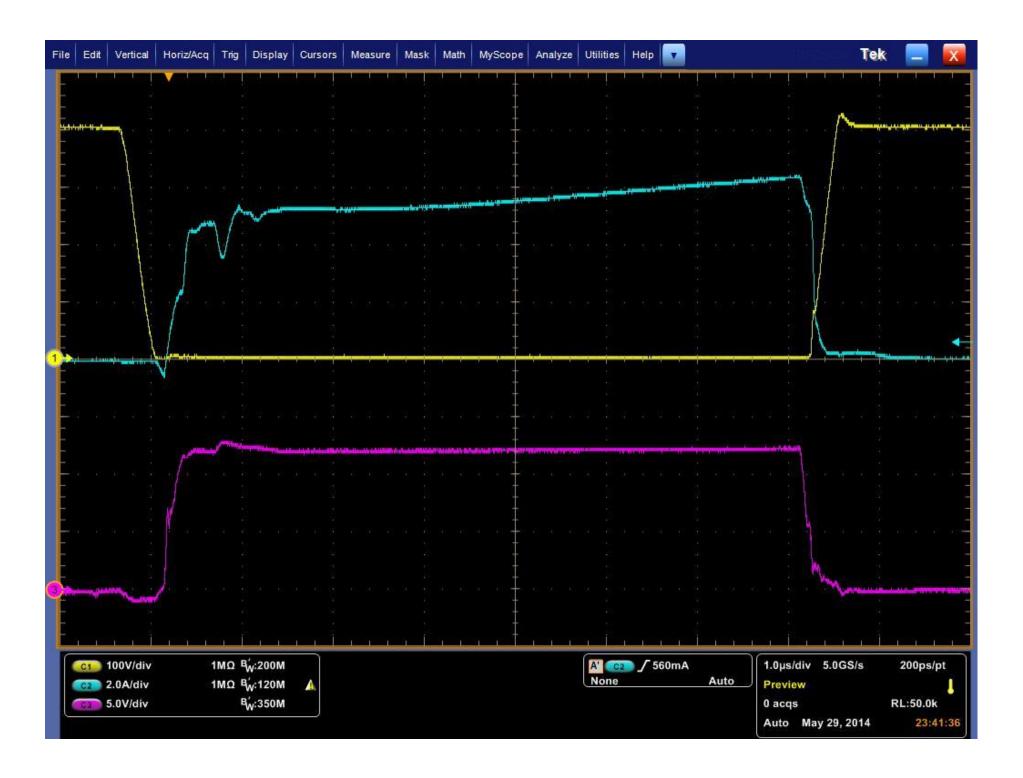




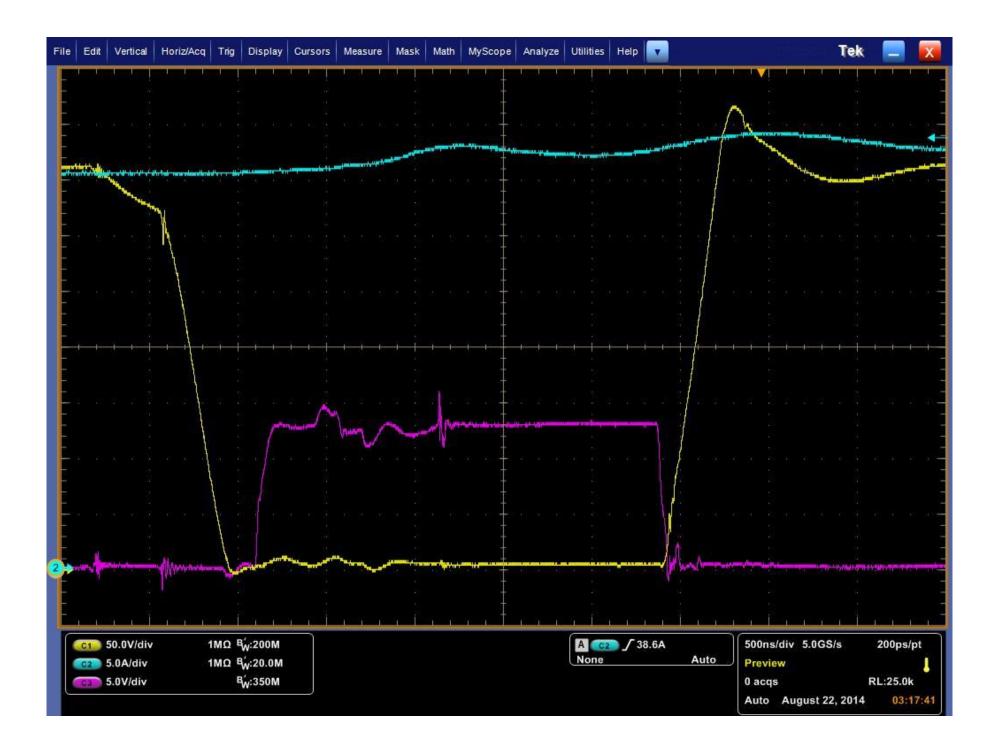


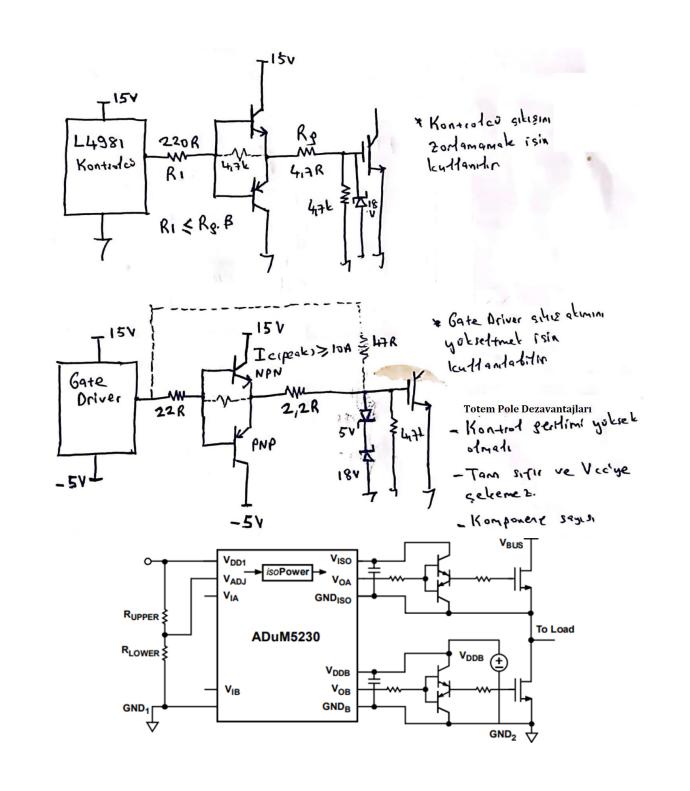


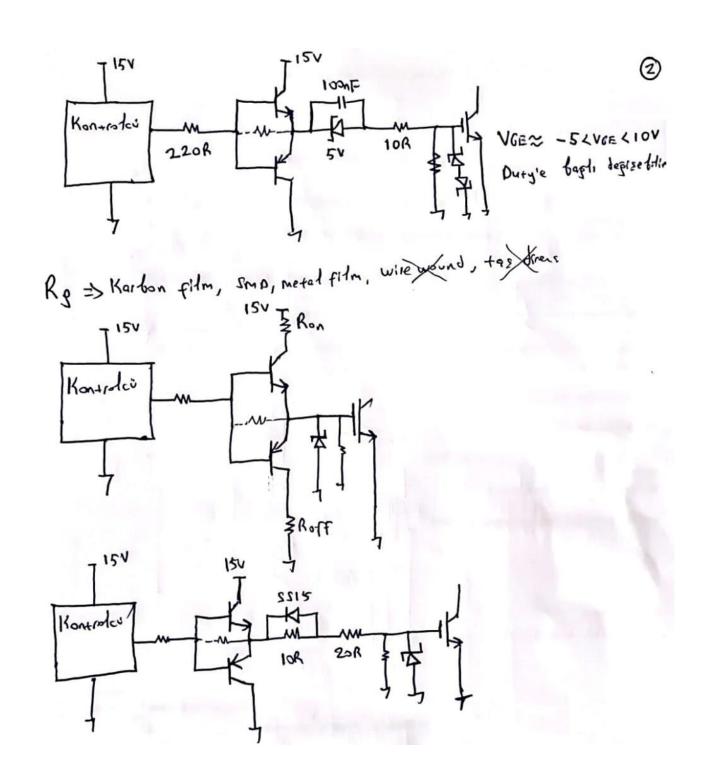


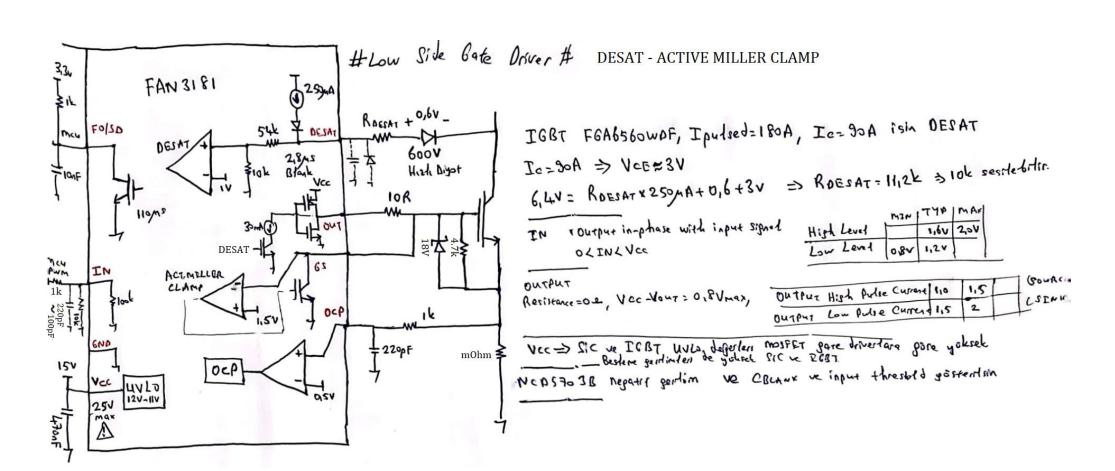




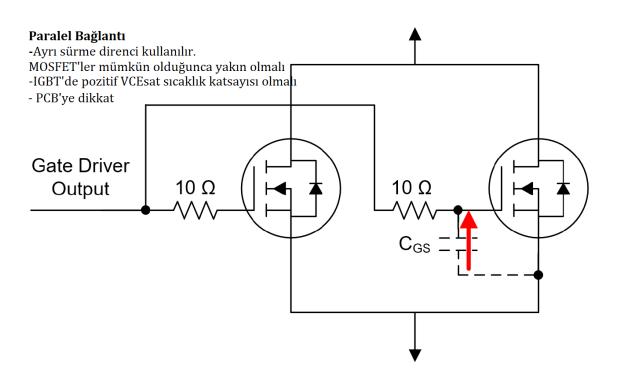


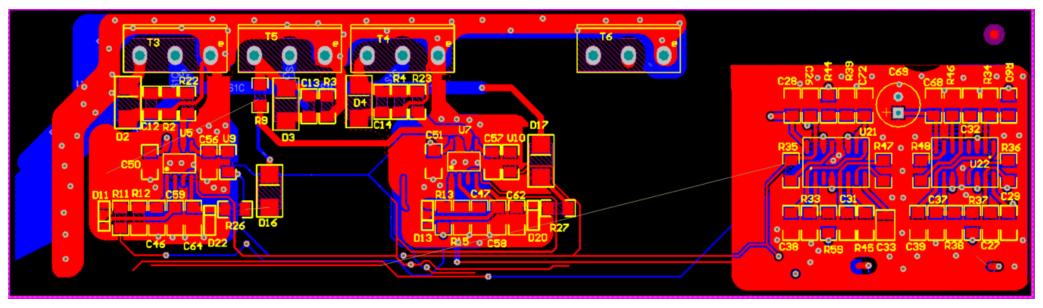


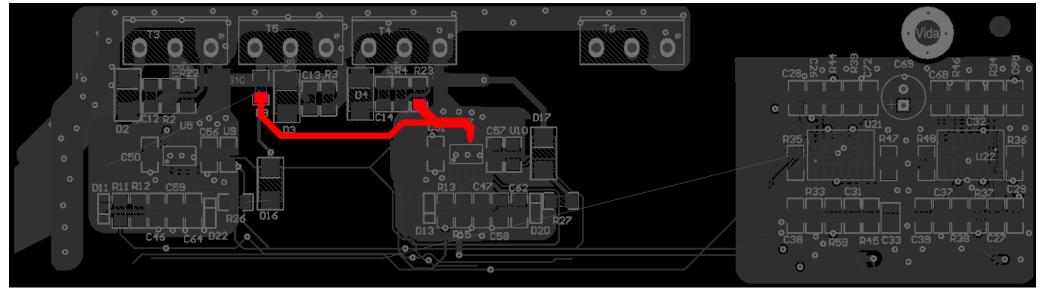




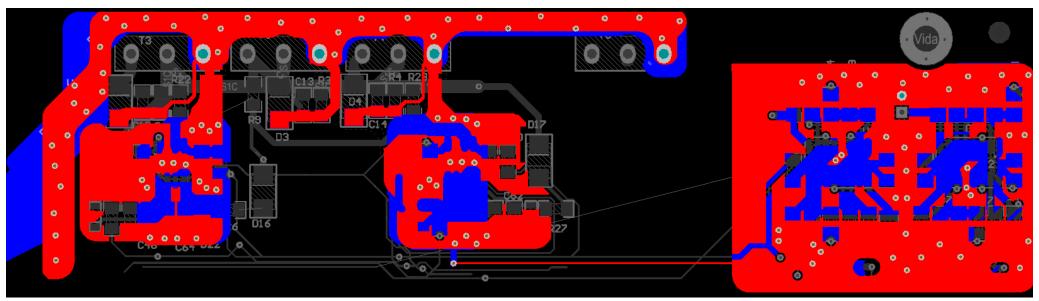
NCD5703B input threshold gerilimleri gösterilsin.

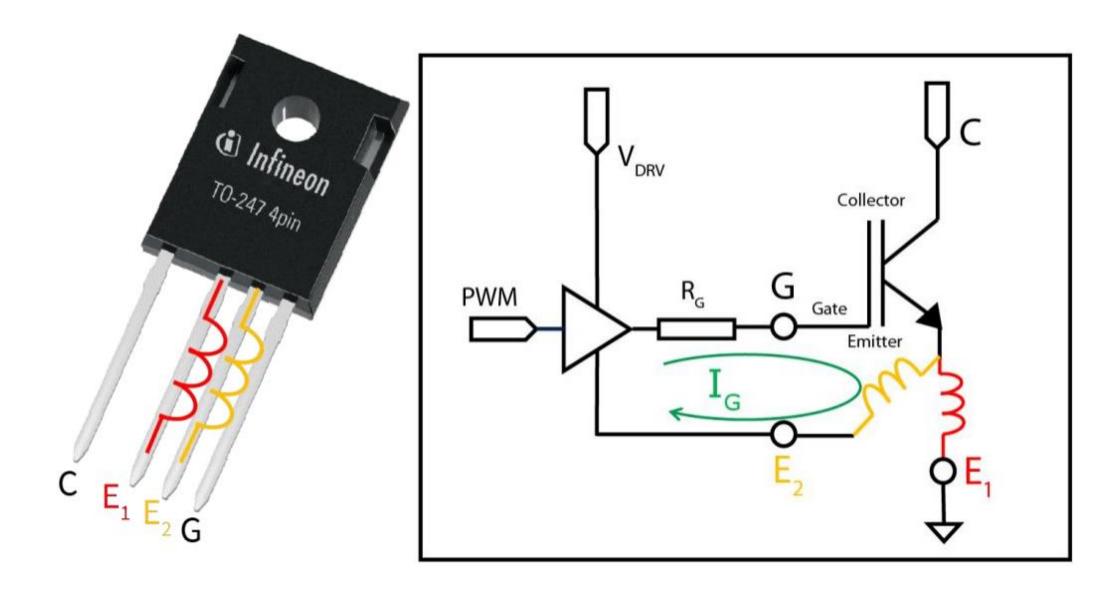


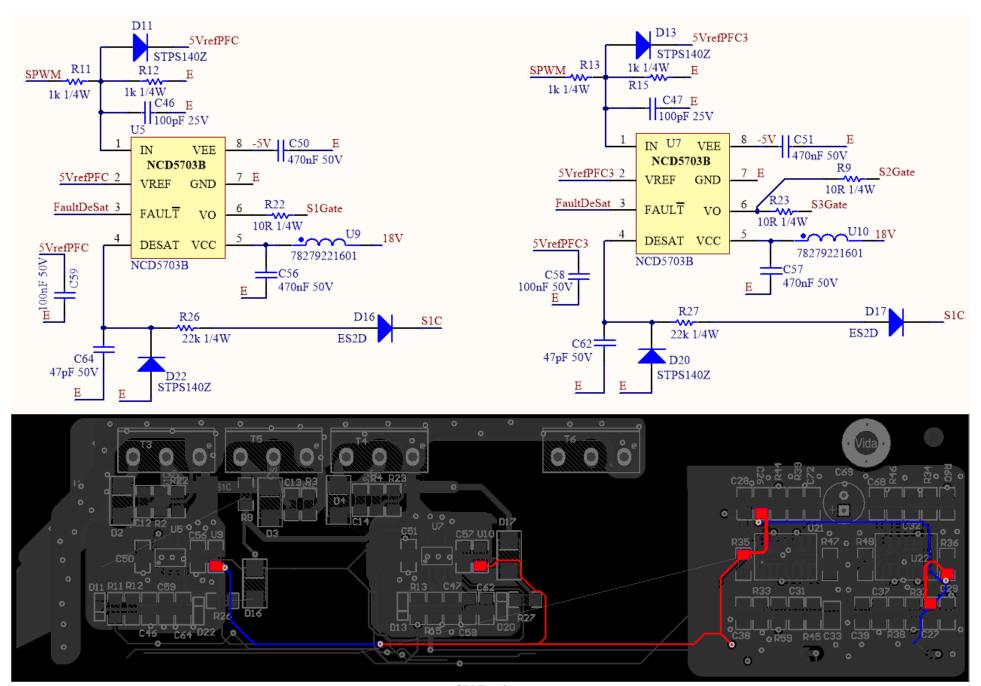




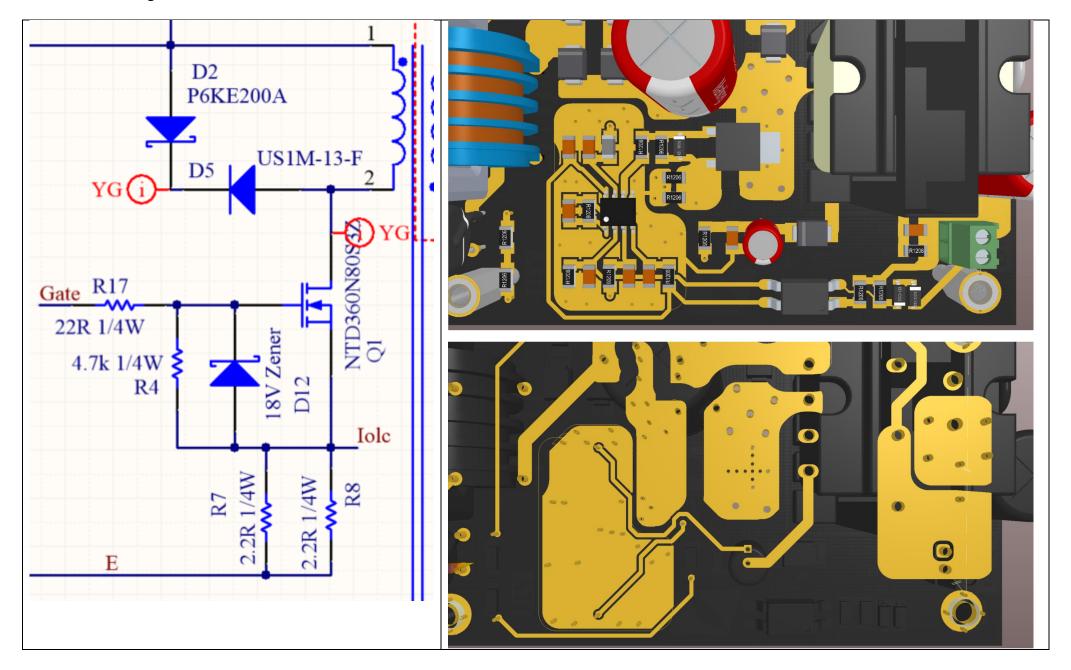
Gate Direnci







18V Besleme



Kaynaklar

[1] Electric Drives with Permanent Magnet Synchronous Machines Connected to Internal Combustion Engines, Mattia Morandin

Onsemi Conductor Datasheet FAN3181

Infineon Datasheet IRL40SC228 Application Note TRENCHSTOP 5 Discrete IGBT in TO-247 4pin Package

Texas Instruments slvaf39a