



Title H-BRIDGE DC MOTOR DRIVER		
Size A4	Number TC4424 + IRF7317	Revision 1
Date: 5/10/1400	Sheet of	
File: C:\cloud\...\TC4427 + IRF7317.SchDoc	Drawn By: ROOZBEH BABAZADEH	

Quantity	LibRef	Footprint	Designator	Description	Comment
6	C	C0805	C1, C2, C3, C4, C5, C7		100nF
1	CAP3528	C_EL_10X12	C6		220uf 35v
1	CAP_ELECTRO_P OLIMER	C_EL_12X25	C8		1000UF/35V
4	SCHOTTKY	D_SMA	D1, D2, D3, D4	DIODE, SCHOTTKY, 40V, 1A	SS110
1	SCHOTTKY	D_SMB	D5	DIODE, SCHOTTKY, 40V, 1A	SM5822
2	TC4427EOA713	SO_8	IC1, IC2	Integrated Circuit	TC4427
1	HDRWF_6	WF_6	J1	Header, WF, Pitch: 2.54mm	HDRWF_6
2	sip 2	PWL_2	J2, J3	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2pin	POWER IN
1	sip 3	3_SIP	J4	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 3pin	V SELECTOR
1	CDRH127_LDNP- 560MC	CDRH127LDNP560 MC-12*12	L1	Inductor	47uH
3	LED3mm	LED1206RED	LED1, LED2, LED3		
1	Multi-Turn	POT_3296W	P1	Potentiometer	10K
2	IRF7317PBF	SO_8	Q1, Q2	Transistor	IRF7317PBF
6	R	R0805	R1, R2, R3, R4, R5, R6		4k7
1	R	R0805	R7		1K8
1	R	R0805	R8		470R
1	R	R0805	R9		2k2
1	Res1	R0805	R10	Resistor	330R
1	LM2596s	to-263-5 5d2pak LM2596S	U1		LM2596-adjust