



Title H-BRIDGE DC MOTOR DRIVER			
Size A4	Number P+N CHANNEL	Revision 1	
Date: 5/10/1400	Sheet of 1		Drawn By ROOZBEH BABAZADEH
File: C:\cloud\IRF9540NS IRFZ44 P+N CHANNEL.DSN			

Quantity	LibRef	Footprint	Designator	Description	Comment
	1 CAP3528	C_EL_10X12	C1		470uf 35v
	1 C	C0805E	C2		100nF
	6 ZENER	D_AX02_DO35	D1, D3, D7, D8, D9, D12	DIODE, ZENER, 3W, 5.6V	15V
	6 SCHOTTKY	D_SMA	D2, D4, D5, D6, D10, D11	DIODE, SCHOTTKY, 40V, 1A	SS110
	1 Diode 1N4005	D_AX06_DO27	D13	1 Amp General Purpose Rectifier	IN5822
	1 HDRWF_8	WF_8	J1	Header, WF, Pitch: 2.54mm	INPUT 1
	2 HDRWF_6	WF_6	J2, J3	Header, WF, Pitch: 2.54mm	INPUT 2,1
	1 sip 3	PWL_3	J4	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 3pin	MOTOR 3
	1 sip 2	PWL_2	J5	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2pin	MOTOR 2
	1 sip 2	PWL_2	J6	WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2pin	POWER IN
	1 LED3mm	LED1206RED	LED1		
	3 IRF9540NSTRLPBF	DPAK2	Q1, Q2, Q7	RoHS Compliant Low RDS_on_ Industry-leading quality Dynamic dv/dt Rating Fast Switching Fully Avalanche Rated 175C Operating Temperature P- Channel MOSFET	IRF9540NS
	3 NPN_BC847_SOT23	SOT23	Q3, Q4, Q8	BJT, NPN, 45v, 0.1A, SOT23	BC847
	3 IRFZ44NPBF	DPAK2	Q5, Q6, Q9	RoHS Compliant Low RDS_on_ Industry-leading quality Dynamic dv/dt Rating Fast Switching Fully Avalanche Rated 175C Operating Temperature	IRFZ44N
	19 R	R0805	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R17, R18, R19, R20		4K7
	1 R	R0805	R16		2k2