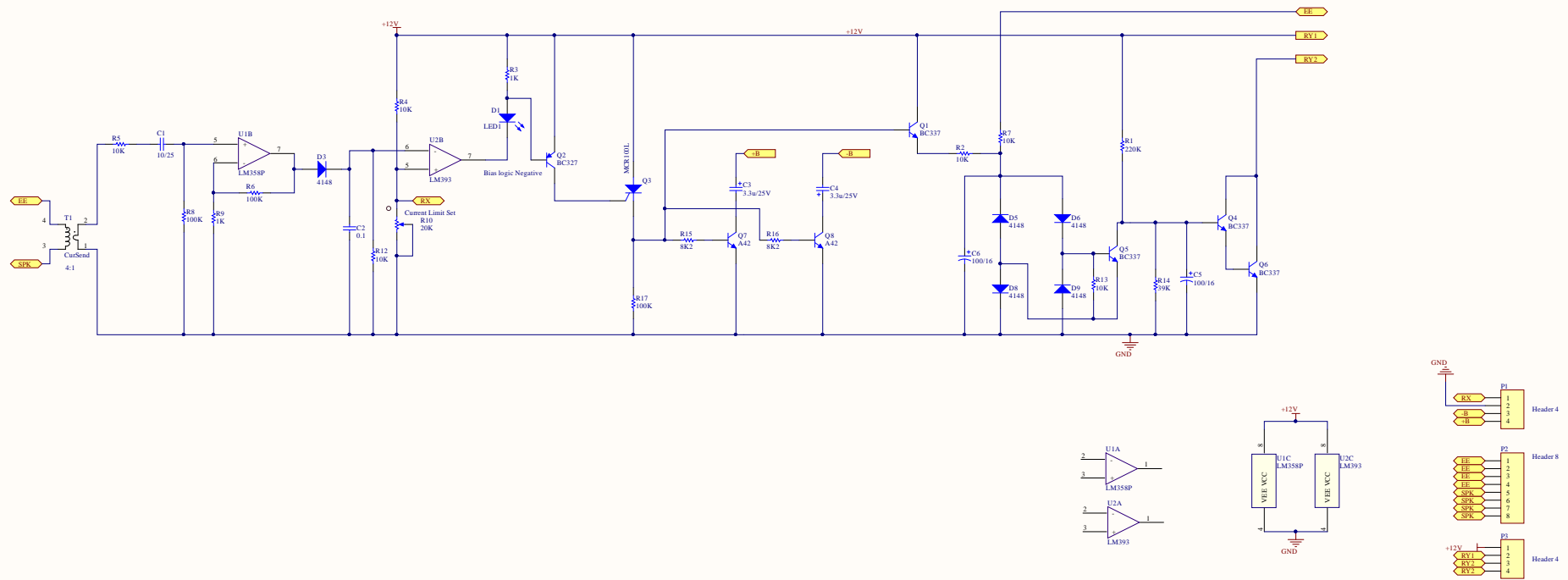


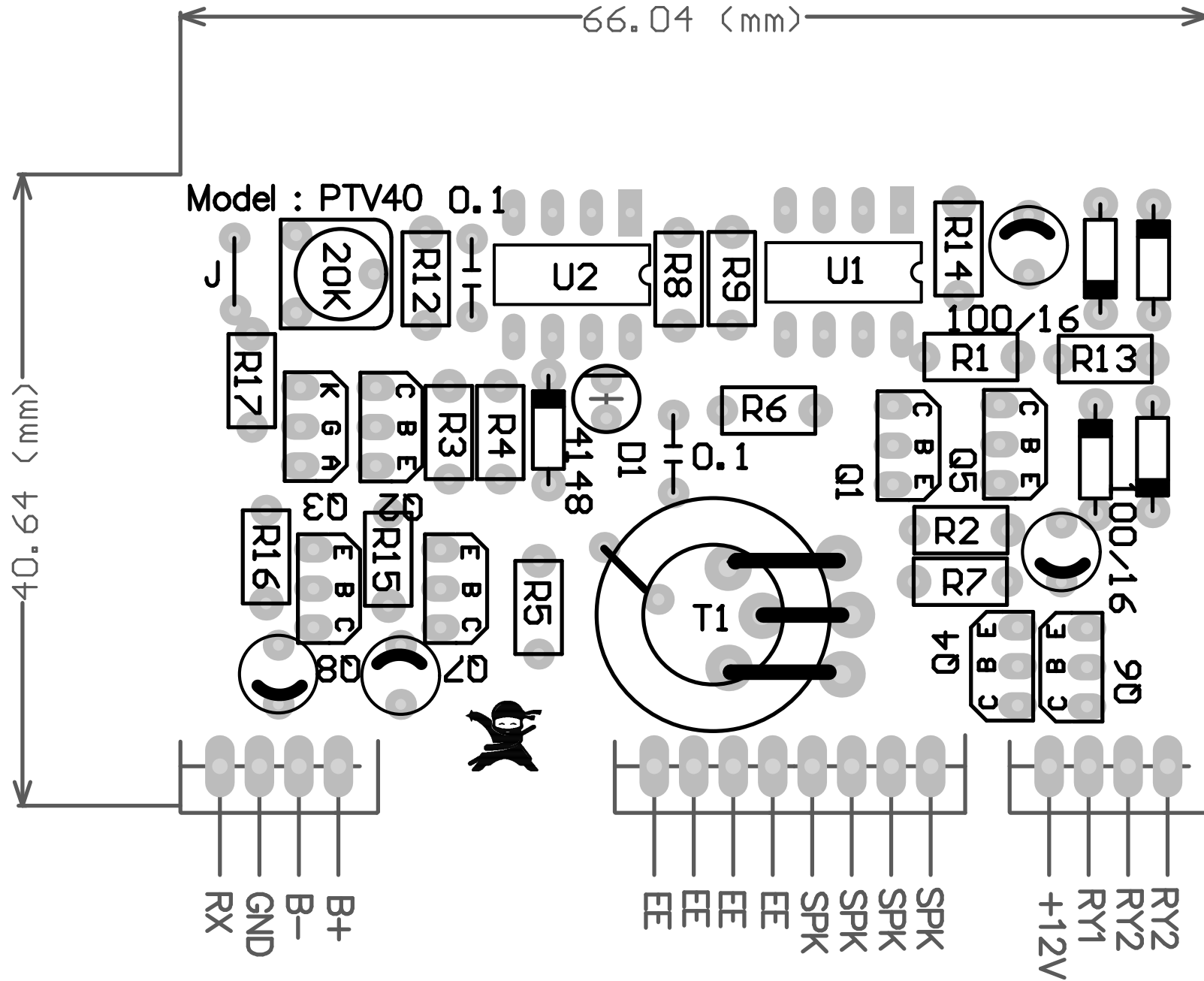
Loudspeakers Short Circuit Protection



Title		
Size	Number	Revision
A2		
Date: 1/14/2018		
File: C:\PowerTech\2018\Speaker_V1.Sch (Drawn By:)		

Loudspeakers Short Circuit Protection

Design by PowerTech Audio



Comment	Description	Designator	Footprint	LibRef	Quantity
10/25	Capacitor	C1	Cap_Caramic5M	Cap	1
0.1	Capacitor	C2	Cap_Caramic5M	Cap	1
3.3u/25V	Polarized Capacitor (Radial)	C3, C4	ELEC5M	Cap Pol1	2
100/16	Polarized Capacitor (Radial)	C5, C6	ELEC5M	Cap Pol1	2
LED1	Typical RED GaAs LED	D1	LED-3mm	LED1	1
4148	Default Diode	D3, D5, D6, D8, D9	1N4148	Diode	5
Header 4	Header, 4-Pin	P1, P3	H4	Header 4	2
Header 8	Header, 8-Pin	P2	H8	Header 8	1
BC337	NPN Bipolar Transistor	Q1, Q4, Q5, Q6	TO-92CBE	NPN	4
BC327	PNP Bipolar Transistor	Q2	TO-92CBE	PNP	1
MCR100L	Silicon Controlled Rectifier	Q3	TO-92_SCR_KGA	SCR	1
A42	NPN Bipolar Transistor	Q7, Q8	TO-92EBC	NPN	2
220K	Resistor	R1	R1/8	Res1	1
10K	Resistor	R2, R4, R5, R7, R12, R13	R1/8	Res1	6
1K	Resistor	R3, R9	R1/8	Res1	2
100K	Resistor	R6, R8, R17	R1/8	Res1	3
20K	Potentiometer	R10	VR-Small	RPot	1
39K	Resistor	R14	R1/8	Res1	1
8K2	Resistor	R15, R16	R1/8	Res1	2
CurSend		T1	TO-60-26	TRN_CUR	1
LM358P		U1	S-DIP8	TL072	1
LM393		U2	S-DIP8	TL072	1