

PROJECT NAME:

STEVAL-ILL038V1

May 6, 2011

## BILL OF MATERIALS

Item	Q.ty	Reference	Part / Value	Tolerance %	Voltage Current	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/Other Code	More Info
1	1	BD1	GBU8J_DIP			DIP4	VISHAY	GBU8J	RS: 700-5459	fix the device on the heat-sink
2	3	C1,C5,C9	470nF_DIP		305VAC	DIP	EPCOS	B32922C3474K	RS: 669-0139	
3	3	C2,C3,C4	5uF/800V_DIP		800V	DIP	EPCOS	B32774D8505K000		
4	2	C6,C12	10nF	X7R	50V	C0805				
5	2	C7,C11	2.2uF	X7R	50V	C0805				
6	1	C8	0.33uF	X7R	50V	C0805				
7	1	C10	470nF	X7R	50V	C0805				
8	2	C13,C30	1nF	X7R	50V	C0805				
9	1	C14	0.1uF_1206	X7R	50V	C1206				
10	2	C15,C16	4.7uF 63V_DIP		63V	DIP	EPCOS	B32529D0475M000	Mouser: 505-MKS24.7/63/5	Mouser: 505-MKS24.7/63/5
11	1	C17	100nF_1206	X7R	100V	C1206	AVX			
12	1	C18	220pF_1206	X7R	500V	C1206	Vishay	VJ1206Y221KXEAT5Z	Mouser: 77-VJ1206Y221KXEAT5Z	
13	1	C19	330nF	X7R	50V	C0805				
14	1	C20	15nF_DIP	5%	1000V	DIP pitch 15mm	EPCOS	B32652J1153J189 B32652J1153J000	Epcos	
15	1	C21	2.2n_DIP			DIP	Murata	DE1E3KX222M		
16	2	C22,C31	220nF	X7R	50V	C0805				
17	1	C23	4.7uF	X7R	16V	C0805			RS: 698-3554	
18	1	C25	47uF_CaseD		20V	Case D	SANYO	20TQC47MY	RS: 699-3927	<a href="http://www.edc.sanyo.com">http://www.edc.sanyo.com</a>
19	1	C26	0.47uF_1206	X7R	50V	C1206				
20	1	C27	2.2uF_1206	X7R	50V	C1206			RS: 691-1215	
21	1	C28	0.22uF	X7R	50V	C0805				
22	1	C29	15nF	X7R	50V	C0805				
23	1	D1	1N4007_DIP			DO-41	VISHAY	1.4007 nF		
24	1	D2	STTH3L06U_SMB			SMB	ST	STTH3L06U		
25	8	D3,D4,D6,D8,D9, D10,D11,D12	1N4148			Min-Melf	CHENMKO	LL4148PT		
26	2	D5,D7	STPS10150CFP			DIP	ST	STPS10150CFP		<a href="http://www.magictec.com.tw">www.magictec.com.tw</a>
27	1	F1	4A_DIP			DIP	Littlefuse	3921400		
28	1	J1	CN1			MKDS 3/ 3-B-5,08	PHOENIX CONTACT	1707917		
29	1	J2	CON2			MKDSN 2,5/ 2-5,08	PHOENIX CONTACT	1888687		
30	1	L1	QTC21_DIP			DIP	YU JING	HOTC2105501100A		<a href="http://www.yuingtech.com.tw">www.yuingtech.com.tw</a>
31	1	L2	3.3uH_DIP			DIP	MAGI	AKL0806MN-3R3M	RS: 675-5488 or RS: 233-5106	<a href="http://www.magictec.com.tw">www.magictec.com.tw</a>
32	2	Q1,Q3	STF9NM60N_DIP		600V	TO-220FP	ST	STF9NM60N		
33	1	Q2	STF21NM60N_DIP		600V	DIP	ST	STF21NM60N		fix the device on the heat-sink
34	1	Q4	STQ1HNK60R_DIP			TO92	ST	STQ1HNK60R		
35	3	Q5,Q6,Q7	BC847			SOT-23	Fairchild	512-BC847AMTF		
36	1	RV1	VARISTOR		300VAC	DIP	EPCOS	B72214S0301K101		
37	2	R1,R3	1M_1206	1%		R1206				
38	1	R2	1.3M_1206	1%		R1206				
39	1	R4	1.1M_1206	1%		R1206				
40	1	R5	150K_1206	1%		R1206				
41	2	R6,R9	2M_1206	1%		R1206				

42	1	R7	1.5M_1206	1%		R1206				
43	1	R8	18K	1%		R0805				
44	1	R10	56K_1206	1%		R1206				
45	1	R11	19.6K	1%		R0805				
46	1	R13	51K	1%		R0805				
47	1	R14	390K_1206	1%		R1206				
48	2	R15,R32	120K	1%		R0805				
49	3	R16,R17,R36	27K	1%		R0805				
50	1	R18	270K	1%		R0805				
51	1	R19	680K	1%		R0805				
52	3	R20,R21,R24	22	5%		R0805				
53	1	R23	0.15_DIP	1%		1W				
54	1	R25	110K_1206	1%		R1206				
55	1	R26	110_1206	1%		R1206				
56	1	R27	100	1%		R0805				
57	1	R28	3M_1206	1%		R1206				
58	1	R29	1.8M_1206	1%		R1206				
59	1	R30	220K	1%		R0805				
60	2	R31,R37	4.7K	5%		R0805				
61	1	R33	1_1206	5%		R1206				
62	1	R34	22K	1%		R0805				
63	1	R35	620	1%		R0805				
64	1	R38	49.9K	1%		R0805				
65	1	R39	2.2K	1%		R0805				
66	1	R40	12K_1206	1%		R1206				
67	1	R41	15K	1%		R0805				
68	1	R44	2.7K	1%		R0805				
69	1	T1	QP2520_DIP			DIP	YU JING	QP2520		www.yuingtech.com.tw
70	1	T2	LP2920_DIP			DIP	YU JING	LP2920		www.yuingtech.com.tw
71	1	U1	L6585DE			SO-20	ST	L6585DE		
72	1	U2	SFH6156-2T			SMD4 - 10.16MM		SFH6156-2T	RS:284-1190	
73	1	U3	TL2431			SOT-23	ST	TS2431AILT		
74	1	ZD1	24V			Min-Melf	CHENMKO	MMGZ5252BPT	RS: 545-3213	
75	1	ZD2	12V			Min-Melf	CHENMKO	MMGZ5242BPT	RS: 545-3140	
76	1	ZD3	15V			Min-Melf	CHENMKO	MMGZ5245BPT	RS: 545-3162	
77	1	HEAT-SINK	SIZE-5X20X110mm			Alluminium		SK512		
78	4	CLIPS or SCREW for fix DB1,Q2,Q1,Q3 on heat-sink	Ø3mm							