

# SISG4 Bill of Material

ID x = 1, 2, 3	Qty Circuit	Qty Board	Desc	Dist	Dist P/N	Mfg P/N	Pkg	Cost
TB1, TB2		2	Terminals	Mouser	534-7701	Keystone #7701		\$0.22
U1, U2, U3, Ux1, Ux2, Ux3	3	12	Sidac - 300 V	DigiKey	K3000F1-ND	K3000F1	TO-202AB	\$0.86
D1, Dx1	1	4	TVS Bi-Dir 24v 1500w	DigiKey	1.5KE24CADICT-ND	1.5KE24CA	DO-201	\$0.59
D2, Dx2	1	4	1N5819 Diode	DigiKey	1N5819DICT-ND	1N5819	DO-41	\$0.11
D3, Dx3	1	4	TVS Bi-Dir 33v 600w	DigiKey	P6KE33CADICT-ND	P6KE33CA-T	DO-15	\$0.44
R4, Rx4	1	4	100 Ohm 2 Watt	DigiKey	P100W-2BK	ERG-2SJ101	see Note 3	\$0.21
C1, Cx1	1	4	Cap .1uF 250V	N/A		ECW-F2104JS	see Note 1	
			<i>Current Substitute</i>	DigiKey	PF2104-ND	ECW-F2104JB		\$0.42
R1, R2, R3, Rx1, Rx2, Rx3	3	12	1 mOhm 1/4 Watt	DigiKey	1.0MQBK-ND	CFR-25JB-1MO		\$0.02
R5, Rx5	1	4	4.7kOhm 1/4 Watt	DigiKey	4.7KQBK-ND	CFR-257B-4K7	see Note 2	\$0.02
	1	4	2.5" Heat Sink	Allied	619-0020	530001B02500	TO-247	\$1.49
Heat Sink attachment Option#1								
	1	4	Clip	Mouser	532-MAXCLIP07	Aavid # Max07		\$0.18
	1	4	#6-32 X	McMaster	90272A144			\$0.02
	1	5	#6-32 L.W.	McMaster	91102A730			\$0.01
	1	4	#6-32 Nut	McMaster	90480A007			\$0.01
Heat Sink attachment Option#2								
			Arctic Seal 5 Adhesive		<a href="http://www.siliconacoustics.com/arsiltherad.html">http://www.siliconacoustics.com/arsiltherad.html</a>			
							Subtotal/Circuit	\$5.71
							Subtotal/Board	\$22.86
IGBT 1, IGBTx1	1	4	1200 V IGBT	DigiKey	IRGPS60B120KDP-ND	IRGPS60B120KDP	TO-274	inc w/pcb
		1	PCB	MarkDunn		SISG4		\$60

Note 1 - See Board Assembly Note #6

Note 2 - R5 can vary. See Board Assembly Note #6

Note 3 - R4 can be 50 ohm. See Board Assembly Note#5

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MRD

6/2/06

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Total/Board \$82.86