

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	Allied	70181565	Keystone #7701		\$0.29
U1, U2, U3, Ux1, Ux2, Ux3			Sidac - 300 V	DigiKey	K3000F1-ND	K3000F1	TO-202AB	obs
Replacement	3	12	Sidac - 300 V	Newark	56P4223	K3002G	DO-15	\$1.53
D1, Dx1	1	4	TVS Bi-Dir 24v 1500w	Allied	70184778	1.5KE24CA	DO-201	\$0.33
D2, Dx2	1	4	1N5819 Diode	Allied	70013816	1N5819	DO-41	\$0.13
D3, Dx3	1	4	TVS Bi-Dir 33v 600w	Allied	70055907	P6KE33CA-T	DO-15	\$0.17
R4, Rx4			100 Ohm 2 Watt	DigiKey	P100W-2BK	ERG-2SJ101	see Note 3	na
Replacement	1	4	51 Ohm 1 Watt			RSMF1 51 5%		
C1, Cx1	1	4	Cap .1uF 250V	DigiKey	PF2104-ND	ECW-F2104JB		\$0.54
R1, R2, R3, Rx1, Rx2, Rx3	3	12	1 mOhm 1/4 Watt	DigiKey	1.0MQBK-ND	CFR-25JB-1MO		\$0.02
R5, Rx5			4.7kOhm 1/4 Watt	DigiKey	4.7KQBK-ND	CFR-257B-4K7	see Note 2	na
alternate	1	4	681 Ohm 1/4 Watt 1%	Allied	70183628	GP55-681-FTW		\$0.026
	1	4	2.5" Heat Sink	Jameco	2042600	530001B02500	TO-247	\$2.05
Heat Sink Attachment								
	1	4	Clip	Mouser	532-MAXCLIP07	Aavid # Max07		\$0.18
	1	4	#6-32 X	McMaster	90272A144			\$0.02
							Subtotal/Circuit	\$8.09
							Subtotal/Board	\$32.38
IGBT 1, IGBTx1	1	4	1200 V IGBT 60A	DigiKey	IRGPS60B120KDP-ND	IRGPS60B120KDP	TO-274	\$13.49
alternate	1	4	1200 V IGBT 54A	Newark	58K8901	HGTG18N120BND	TO-274	
		1	PCB	MarkDunn		SISG4		\$25

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

File:SidacGapParts.xls

MRD

6/2/2006

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Total/Board \$111.34