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	CONTENTS		Change Record Table	NOTES: 1. All resistors are 0603 1% 0.1W unless otherwise stated. 2. All capacitors are 0603 50V unless otherwise stated.
	Page Description	Revisio	n Description of change	
	1 Front Sheet	0.1	Initial release for review	
A	2 Protection Circuit	0.2	Front sheet added Update with Seiko review comments: - R10 and R22 changed to 1Kohm (from 0R)	A
		0.3	Components updated to high reliability parts	
		0.4	R15 and R16 changed to 0.027ohm (from 0.033ohm) C1 and C9 changed to 330nF 0805 (from 100nF 0603)	
		0.5	C6 and C7 changed to 0805 50V (from 16V 0603) C1 and C9 changed to 1206 50V (from 16V 0805)	
		0.6	P2 changed to 70ADJ-4-FL0 (no fixing holes) & PCB layout update	
		0.7	MOSFETs changed to Fairchild Semiconductor FDS6681Z	
В		1.0	Changes due to customer testing: Change S-8254 to correct device S-8254AAEFT-TB-G Combine D1 & D2 into one device rated at 40V (ST SMBJ40A-TR) Add 4V7 zener diode on MEM signal Change C9 & C1 to 100nF R12, R7, R9, R10 & R11 removed because more board space is required (were 0R) Add RC filter: R4 & R14 change to 5K6 from 1K Add 2.2uF between VINI & VSS Change R15 & R16 to 33mOhm PCB update & part number change	E
		1.1	MOSFETs changed to Vishay Si4427BDY to overcome short circuit problem	
		1.2	C20 & C21 changed to 1uF from 2.2uF to give 5mS RC delay	lay
C	PCBI FID1 FID2 FID3 FID4 PCBI	2.0	L1, L2, L3, L4, L5, L6 added C13, C14, C15, C16, C17, C18, C19 changed to 0402 D3, D4 added PCB1 updated to v2.0 C2, C3, C4, C5, C6, C8, C10 changed to 100nF (were 47nF) C22, C23 added (100nF) R9, R10, R11, R12 added (5K6) R7 added (2K2)	
		3.0	R15 and R16 changed to 0R027	
		4.0	C24 capacitor added across 1-wire	
		4.1	C24 changed from 4.7nF to 2.2nF	
		4.2	MOSFETs Q3, Q4, Q5 & Q6 changed to Vishay Si4425DDY due to obsolesence 2014-08-12	THIS DOCUMENT, AND THE INFORMATION APPEARING THEREIN, IS PROPRIETARY TO, AND THE PROPERTY OF, ACCUTRONICS LTD AND SHALL NOT, IN WHOLE OR IN PART, BE REPRODUCED, DISCLOSED OR USED UNLESS EXPRESSLY AND DULY AUTHORIZED IN WRITING BY ACCUTRONICS LTD.
		4.3	U1 Part Number Amended, C24 Changed to NF	_
D				accutrénics professional battery solutions Design: Legend Protection Circuit SheetTitle: Drawn by:
				Title Sheet SED
		•		Date: 16/06/2015 Sheet: 1 of 2 File Name: 1400-10010-SCH-Legend-01-TitleSheet V4.3.SchDoc A3
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