









			1	2		3	4	
	Revisio	on history	,					
	Revison Date Fixed issue		Changes	Changes				
	r1	2020-07-21	0-07-21		Initial design.			
A					Bootstrap resisto	Bootstrap resistors changed to sloder jumpers.		
	r2	2021-04-01	Cleaner routing.		U1 ISOL_MON	U1 ISOL_MON and IGNC_MON pins swapped.		
			Option to bypass fuse to VIN supply.		Added R42, R43	Added R42, R43.		
	r3	2021-06-01	Isolator and Ignition control outputs are not reverse polarity protected.		Added Ideal diod	Added Ideal diodes (P-ch mosfets) in inputs.		
			Ignition output relay in open-drain configuration could be activated in overvoltage scenario.		Ignition output st	Ignition output stage voltage source changed to seperate source - isolator output supply.		
			Monitoring isolator ouput voltage could be	useful.	Added isoaltor or	atput voltage monitoring curcuit.		
			Add option to have combined master switch and LED indicator pin.		Added software	Added software controlable pull-up resistors for master switch and kill signals. LED cab be supplied through pull-up by changing pull-up to smaller value.		
			No fixed sense resistors for low side OCP.		Added low side s	Added low side sense resistors for easier software controlled low side OCP.		
			New layout and added functionality.		Changed control	Changed controller pinout. NOT reverse compatable with older SW versions!		
			Increase distance between pads.		Changed PCB "c	Changed PCB "connector" from 8pin 2.54mm pitch to 9 custom pads. Changed pinout.		
В			Output combined current can exceed PTC fuse current.		Push-pull outputs	Push-pull outputs changed to be supplied directly from supply pins. Removed option to supply through PTC fuse.		
	r4	2021-09-15	OCP detection isn't fast enough. LPF created form voltage dividers has too much capacitance.		Reduced voltage	Reduced voltage dividers capacitance to 2.2nF, creating step response in about 1ms.		
			MOSFET gates sometimes get damaged during short circuit.		Lowered zener d	Lowered zener diode voltage to 16V.		
			Bootstrap solder-jumper are too hard to solder.		Changed solder j	Changed solder jumper pad shape.		
_								C
D								D
							Title: Revision history MicroRally	
							Project: Isolator Controller Revision: 4	
							Size: A4 Page 6 of 6 Author: Andis Jargans Date: 15.09.202	1
L			1	2		3	File name: History.SchDoc	
			1	2		3	4	