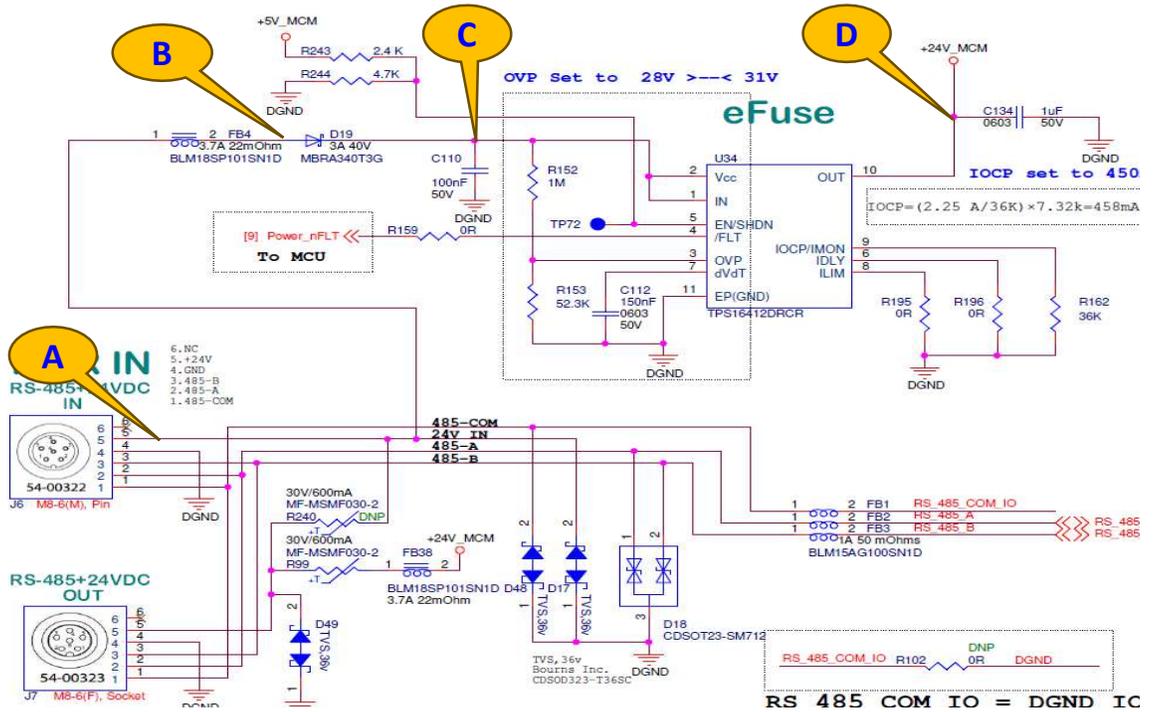


MCM eFuse test



Over Current Protect input test:

MCM

R195=5.1K

R196=0R

R162=36K

R152=1M : **R153= 62K**

ENpin: R244=4.7K ; **R243 removed pull 30K to 24V_IN**

$$I_{OCP} = \frac{2.25 \text{ A}}{R_{IOCP}} \times 7.32 \text{ k}\Omega$$

$$R_{IOCP}(R215) = 36$$

$$I_{OCP} = 457.5 \text{ (mA)}$$

e-load load at point C (mA)	test point A (V)	test point B (V)	test point C (V)	test point D (V)	$\Delta V(\text{FB4})$ (V)	$\Delta V(\text{D19})$ (V)	$\Delta V(\text{eFuse})$ (V)
3	24.02	24.02	23.83	23.83	0.00	0.19	0.00
103	23.93	23.93	23.65	23.64	0.00	0.28	0.01
203	23.82	23.82	23.54	23.51	0.00	0.28	0.03
303	23.73	23.72	23.44	23.41	0.01	0.28	0.03
403	23.70	23.68	23.40	23.34	0.02	0.28	0.06
503	23.67	23.66	23.39	23.32	0.01	0.27	0.07
603	23.66	23.64	23.34	23.24	0.02	0.30	0.10
703	23.61	23.59	23.31	23.22	0.02	0.28	0.09
803	23.59	23.56	23.29	23.16	0.03	0.27	0.13
832.16	24.03	24.02	23.88	0.73	0.01	0.14	23.15

4. Overvoltage protection input test:

R152=	1000	1000	1000	(K ohm)	OVP Ris/Fall Measure ments	result
R153=	62	62	62	(K ohm)		
Vovpr=	1.48	1.53	1.58	(V)		
VovPf=	1.34	1.40	1.46	(V)		
OVP Ris=	25.35	26.21	27.06	(V)	26.07	Pass
OVP Fall=	22.95	23.98	25.01	(V)	24.05	Pass

mA



{A
{B

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