4/13/2007

Thermistor to Temperature Conversion

NOTES: (password="thermistor")

This test is with two of the new mosfets in parallel, Part# HUF75339P3. This time I selected the max load with PWM%=100. Then I proceeded to test by changing PWM% to achieve the various input current levels.

Model No.	R @25 C	B constant	Temp Coeff	Base Temp	C => K
NTC-202	2000	3800	-4.3	25	298.15

#	Vpwrsup	Amps	Vpwm%	Diode (ohms)	Temp C	Mosfet (ohms)	Temp C	2nd Mosfet (ohms)	Temp C	
1	12.92	Pwr OFF	n/a	2950	16.2	2950	16.2	2970	16.0	
2	11.48	18.6	1.054	2640	18.6	2040	24.5	2200	22.8	100% PWM
3	11.47	15.9	1.360	2420	20.6	1070	40.4	1330	34.9	
4	11.64	12.8	2.324	1930	25.8	920	44.3	1110	39.4	
5	11.77	10.5	2.923	1670	29.3	850	46.5	1020	41.6	
6	11.85	9.2	3.299	1520	31.6	800	48.1	950	43.5	
7	11.96	7.4	3.877	1460	32.5	780	48.8	930	44.1	
8	12.04	6.1	4.290	1430	33.1	750	49.9	930	44.1	
9	12.11	5.0	4.640	1440	32.9	760	49.5	930	44.1	
10	12.18	4.0	4.940	1460	32.5	780	48.8	940	43.8	
11	12.26	3.0	5.270	1490	32.0	820	47.4	960	43.2	
12	12.33	2.0	5.560	1560	30.9	890	45.2	1020	41.6	
13	12.43	1.0	5.840	1690	29.0	1030	41.4	1120	39.2	
14	12.52	0.0	6.200	2030	24.7	1520	31.6	1440	32.9	
15	12.12	5.0	4.650	1820	27.2	920	44.3	1070	40.4	
16	11.79	10.0	3.101	1570	30.8	780	48.8	930	44.1	
17	11.50	14.9	2.030	1640	29.7	690	52.2	820	47.4	
18	11.29	18.5	1.081	2040	24.5	1140	38.8	1170	38.1	100% PWM
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