



# Silicon Diode Thermometer

Sensor Model: Si440

Calibration Current: 10 microamps

## Typical Response

020-130

Temp. K	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
0		1.64342	1.62255	1.59108	1.55483	1.51590	1.47740	1.44098	1.40827	1.37998
10	1.35568	1.33317	1.31277	1.29401	1.27621	1.25932	1.24342	1.22816	1.21325	1.19816
20	1.18193	1.16246	1.13841	1.12425	1.11828	1.11480	1.11217	1.10996	1.10828	1.10643
30	1.10465	1.10295	1.10124	1.09952	1.09791	1.09651	1.09491	1.09330	1.09170	1.09009
40	1.08848	1.08687	1.08526	1.08364	1.08202	1.08040	1.07877	1.07715	1.07552	1.07389
50	1.07225	1.07061	1.06897	1.06733	1.06569	1.06404	1.06239	1.06073	1.05908	1.05742
60	1.05576	1.05409	1.05242	1.05075	1.04908	1.04740	1.04572	1.04404	1.04235	1.04067
70	1.03897	1.03728	1.03558	1.03388	1.03218	1.03047	1.02876	1.02704	1.02533	1.02361
80	1.02188	1.02016	1.01843	1.01669	1.01495	1.01321	1.01146	1.00970	1.00794	1.00618
90	1.00441	1.00264	1.00087	0.99909	0.99730	0.99551	0.99372	0.99192	0.99012	0.98831
100	0.98650	0.98468	0.98286	0.98104	0.97921	0.97738	0.97554	0.97370	0.97186	0.97001
110	0.96816	0.96630	0.96443	0.96257	0.96070	0.95882	0.95694	0.95505	0.95316	0.95126
120	0.94936	0.94746	0.94555	0.94363	0.94171	0.93979	0.93786	0.93592	0.93398	0.93203
130	0.93008	0.92812	0.92616	0.92418	0.92221	0.92022	0.91823	0.91623	0.91423	0.91222
140	0.91021	0.90819	0.90617	0.90414	0.90212	0.90008	0.89805	0.89601	0.89397	0.89193
150	0.88988	0.88783	0.88578	0.88372	0.88166	0.87959	0.87752	0.87545	0.87337	0.87129
160	0.86921	0.86712	0.86503	0.86294	0.86084	0.85874	0.85664	0.85453	0.85242	0.85030
170	0.84818	0.84606	0.84393	0.84180	0.83967	0.83754	0.83540	0.83325	0.83111	0.82896
180	0.82680	0.82465	0.82249	0.82032	0.81816	0.81599	0.81381	0.81163	0.80945	0.80727
190	0.80508	0.80290	0.80071	0.79851	0.79632	0.79412	0.79192	0.78972	0.78752	0.78532
200	0.78311	0.78090	0.77869	0.77648	0.77426	0.77205	0.76983	0.76761	0.76539	0.76317
210	0.76094	0.75871	0.75648	0.75425	0.75202	0.74978	0.74755	0.74532	0.74308	0.74085
220	0.73861	0.73638	0.73414	0.73191	0.72967	0.72743	0.72520	0.72296	0.72072	0.71848
230	0.71624	0.71400	0.71176	0.70951	0.70727	0.70503	0.70278	0.70054	0.69829	0.69604
240	0.69379	0.69154	0.68929	0.68704	0.68479	0.68253	0.68028	0.67802	0.67576	0.67351
250	0.67124	0.66898	0.66672	0.66445	0.66219	0.65992	0.65765	0.65538	0.65310	0.65083
260	0.64855	0.64628	0.64400	0.64172	0.63944	0.63716	0.63487	0.63259	0.63030	0.62802
270	0.62573	0.62344	0.62115	0.61885	0.61656	0.61427	0.61197	0.60968	0.60738	0.60509
280	0.60279	0.60050	0.59820	0.59590	0.59360	0.59131	0.58901	0.58671	0.58441	0.58211
290	0.57980	0.57750	0.57520	0.57289	0.57059	0.56828	0.56598	0.56367	0.56136	0.55905
300	0.55674	0.55443	0.55211	0.54980	0.54748	0.54516	0.54285	0.54053	0.53820	0.53588
310	0.53356	0.53123	0.52891	0.52658	0.52425	0.52192	0.51958	0.51725	0.51492	0.51258
320	0.51024	0.50790	0.50556	0.50322	0.50088	0.49854	0.49620	0.49385	0.49151	0.48916
330	0.48681	0.48446	0.48212	0.47977	0.47741	0.47506	0.47271	0.47036	0.46801	0.46565
340	0.46330	0.46095	0.45860	0.45624	0.45389	0.45154	0.44918	0.44683	0.44447	0.44212
350	0.43976	0.43741	0.43505	0.43270	0.43034	0.42799	0.42563	0.42327	0.42092	0.41856
360	0.41620	0.41384	0.41148	0.40913	0.40677	0.40441	0.40205	0.39969	0.39733	0.39497
370	0.39261	0.39025	0.38789	0.38552	0.38316	0.38080	0.37844	0.37607	0.37371	0.37135
380	0.36898	0.36662	0.36425	0.36189	0.35952	0.35715	0.35479	0.35242	0.35005	0.34768
390	0.34532	0.34295	0.34058	0.33821	0.33584	0.33347	0.33109	0.32872	0.32635	0.32398
400	0.32161	0.31923	0.31686	0.31448	0.31211	0.30973	0.30736	0.30498	0.30260	0.30022
410	0.29785	0.29547	0.29309	0.29071	0.28833	0.28595	0.28357	0.28118	0.27880	0.27642
420	0.27403	0.27165	0.26926	0.26688	0.26449	0.26211	0.25972	0.25733	0.25494	0.25255
430	0.25016	0.24777	0.24538	0.24299	0.24060	0.23820	0.23581	0.23341	0.23102	0.22862
440	0.22623	0.22383	0.22143	0.21903	0.21664	0.21424	0.21185	0.20946	0.20707	0.20469
450	0.20231	0.19994	0.19756	0.19520	0.19283	0.19047	0.18811	0.18576	0.18342	0.18107
460	0.17873	0.17640	0.17407	0.17175	0.16943	0.16712	0.16482	0.16252	0.16022	0.15793
470	0.15565	0.15337	0.15111	0.14884	0.14659	0.14434	0.14210	0.13986	0.13763	0.13541
480	0.13320	0.13100	0.12880	0.12661	0.12443	0.12226	0.12010	0.11794	0.11579	0.11366
490	0.11153	0.10941	0.10730	0.10520	0.10311	0.10103	0.09896	0.09690	0.09485	0.09281
500	0.09077									

Record of Revisions						
Rev	ECN#	Description	Rev by	Date	Appr by	Date
-		Initial Release	JWS	3/30/07	<i>[Signature]</i>	3-30-07