



Silicon Diode Thermometer

Sensor Model: Si410

Calibration Current: 10 microamps

Typical Response

020-114

Temp. K	+0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0
0		1.7191	1.7086	1.6852	1.6530	1.6124	1.5659	1.5179	1.4723	1.4309
10	1.3956	1.3656	1.3385	1.3142	1.2918	1.2712	1.2517	1.2333	1.2151	1.1963
20	1.1759	1.1524	1.1293	1.1192	1.1146	1.1114	1.1090	1.1069	1.1049	1.1031
30	1.1014	1.0997	1.0980	1.0964	1.0949	1.0933	1.0917	1.0902	1.0886	1.0871
40	1.0855	1.0839	1.0824	1.0808	1.0792	1.0776	1.0760	1.0744	1.0728	1.0712
50	1.0696	1.0679	1.0663	1.0646	1.0630	1.0613	1.0597	1.0580	1.0563	1.0547
60	1.0530	1.0513	1.0497	1.0480	1.0463	1.0446	1.0429	1.0412	1.0395	1.0378
70	1.0361	1.0344	1.0327	1.0310	1.0293	1.0276	1.0259	1.0242	1.0224	1.0207
80	1.0190	1.0172	1.0155	1.0137	1.0120	1.0102	1.0085	1.0067	1.0049	1.0032
90	1.0014	0.9996	0.9978	0.9960	0.9942	0.9924	0.9905	0.9887	0.9869	0.9851
100	0.9832	0.9814	0.9795	0.9777	0.9758	0.9740	0.9721	0.9703	0.9684	0.9665
110	0.9646	0.9628	0.9609	0.9590	0.9571	0.9552	0.9533	0.9514	0.9495	0.9476
120	0.9457	0.9437	0.9418	0.9398	0.9379	0.9359	0.9340	0.9320	0.9300	0.9281
130	0.9261	0.9241	0.9222	0.9202	0.9182	0.9162	0.9142	0.9122	0.9102	0.9082
140	0.9062	0.9042	0.9022	0.9002	0.8982	0.8962	0.8942	0.8921	0.8901	0.8881
150	0.8860	0.8840	0.8820	0.8799	0.8779	0.8758	0.8738	0.8717	0.8696	0.8676
160	0.8655	0.8634	0.8613	0.8593	0.8572	0.8551	0.8530	0.8509	0.8488	0.8467
170	0.8446	0.8425	0.8404	0.8383	0.8362	0.8341	0.8320	0.8299	0.8278	0.8257
180	0.8235	0.8214	0.8193	0.8171	0.8150	0.8129	0.8107	0.8086	0.8064	0.8043
190	0.8021	0.8000	0.7979	0.7957	0.7935	0.7914	0.7892	0.7871	0.7849	0.7828
200	0.7806	0.7784	0.7763	0.7741	0.7719	0.7698	0.7676	0.7654	0.7632	0.7610
210	0.7589	0.7567	0.7545	0.7523	0.7501	0.7479	0.7457	0.7435	0.7413	0.7391
220	0.7369	0.7347	0.7325	0.7303	0.7281	0.7259	0.7237	0.7215	0.7193	0.7170
230	0.7148	0.7126	0.7104	0.7082	0.7060	0.7037	0.7015	0.6993	0.6971	0.6948
240	0.6926	0.6904	0.6881	0.6859	0.6837	0.6814	0.6792	0.6770	0.6747	0.6725
250	0.6702	0.6680	0.6657	0.6635	0.6612	0.6590	0.6567	0.6545	0.6522	0.6500
260	0.6477	0.6455	0.6432	0.6410	0.6387	0.6365	0.6342	0.6319	0.6297	0.6274
270	0.6251	0.6229	0.6206	0.6183	0.6161	0.6138	0.6115	0.6092	0.6070	0.6047
280	0.6024	0.6001	0.5979	0.5956	0.5933	0.5910	0.5887	0.5865	0.5842	0.5819
290	0.5796	0.5773	0.5750	0.5727	0.5705	0.5682	0.5659	0.5636	0.5613	0.5590
300	0.5567	0.5544	0.5521	0.5498	0.5475	0.5452	0.5429	0.5406	0.5383	0.5360
310	0.5337	0.5314	0.5291	0.5268	0.5245	0.5222	0.5199	0.5176	0.5153	0.5130
320	0.5107	0.5084	0.5061	0.5038	0.5015	0.4992	0.4968	0.4945	0.4922	0.4899
330	0.4876	0.4853	0.4830	0.4806	0.4783	0.4760	0.4737	0.4714	0.4690	0.4667
340	0.4644	0.4621	0.4597	0.4574	0.4551	0.4528	0.4504	0.4481	0.4458	0.4435
350	0.4411	0.4388	0.4365	0.4341	0.4318	0.4295	0.4271	0.4248	0.4225	0.4201
360	0.4178	0.4154	0.4131	0.4108	0.4084	0.4061	0.4037	0.4014	0.3991	0.3967
370	0.3944	0.3920	0.3897	0.3873	0.3850	0.3826	0.3803	0.3779	0.3756	0.3732
380	0.3709	0.3685	0.3662	0.3638	0.3615	0.3591	0.3567	0.3544	0.3520	0.3497
390	0.3473	0.3449	0.3426	0.3402	0.3379	0.3355	0.3331	0.3308	0.3284	0.3260
400	0.3237	0.3213	0.3189	0.3165	0.3142	0.3118	0.3094	0.3071	0.3047	0.3023
410	0.2999	0.2976	0.2952	0.2928	0.2904	0.2880	0.2857	0.2833	0.2809	0.2785
420	0.2761	0.2738	0.2714	0.2690	0.2666	0.2642	0.2618	0.2594	0.2570	0.2547
430	0.2523	0.2499	0.2475	0.2451	0.2427	0.2403	0.2379	0.2355	0.2331	0.2307
440	0.2283	0.2259	0.2235	0.2211	0.2187	0.2163	0.2139	0.2115	0.2091	0.2067
450	0.2043									

Record of Revisions						
Rev	ECN#	Description	Rev by	Date	Appr by	Date
-		Initial Release	JWS	11/21/05	<i>JWS</i>	12/15/05