

Change No.	Rev.	Description	Author	Date	Approved	Date
DCR	-	Initial Release	A. Karki	8/26/2020	ARK	8/26/2020
DCR	A	Updated Data	A. Karki	11/24/2020	ARK	12/10/2020

Sensor Model: Si415

Calibration Current: 10µA

Typical Response Curve

Temp. K	+0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0
0		1.69176	1.67544	1.65255	1.62469	1.58570	1.54546	1.50107	1.45726	1.41819
10	1.38536	1.35364	1.32608	1.30387	1.28331	1.26457	1.24665	1.22988	1.21296	1.19671
20	1.17619	1.15130	1.13255	1.12075	1.11530	1.11169	1.10889	1.10632	1.10389	1.10166
30	1.09964	1.09776	1.09604	1.09446	1.09287	1.09128	1.08982	1.08852	1.08718	1.08584
40	1.08446	1.08304	1.08161	1.08017	1.07873	1.07730	1.07587	1.07440	1.07289	1.07134
50	1.06974	1.06809	1.06643	1.06478	1.06312	1.06144	1.05976	1.05807	1.05639	1.05470
60	1.05302	1.05133	1.04963	1.04795	1.04626	1.04458	1.04289	1.04119	1.03950	1.03780
70	1.03612	1.03444	1.03275	1.03105	1.02932	1.02758	1.02583	1.02404	1.02226	1.02048
80	1.01877	1.01706	1.01535	1.01363	1.01191	1.01019	1.00846	1.00672	1.00497	1.00322
90	1.00147	0.99971	0.99796	0.99619	0.99443	0.99266	0.99088	0.98910	0.98730	0.98550
100	0.98370	0.98189	0.98008	0.97826	0.97643	0.97461	0.97277	0.97092	0.96907	0.96721
110	0.96534	0.96347	0.96160	0.95973	0.95784	0.95595	0.95406	0.95216	0.95025	0.94834
120	0.94641	0.94447	0.94253	0.94059	0.93864	0.93669	0.93473	0.93278	0.93082	0.92886
130	0.92690	0.92493	0.92297	0.92100	0.91903	0.91705	0.91507	0.91309	0.91110	0.90911
140	0.90719	0.90525	0.90329	0.90132	0.89935	0.89737	0.89538	0.89338	0.89138	0.88937
150	0.88735	0.88532	0.88328	0.88123	0.87918	0.87712	0.87505	0.87297	0.87089	0.86877
160	0.86663	0.86450	0.86237	0.86024	0.85811	0.85597	0.85384	0.85170	0.84957	0.84743
170	0.84530	0.84318	0.84105	0.83892	0.83679	0.83465	0.83252	0.83038	0.82825	0.82613
180	0.82400	0.82187	0.81973	0.81760	0.81546	0.81333	0.81119	0.80905	0.80691	0.80477
190	0.80263	0.80049	0.79834	0.79621	0.79408	0.79193	0.78978	0.78763	0.78548	0.78337
200	0.78124	0.77910	0.77695	0.77482	0.77268	0.77053	0.76838	0.76622	0.76405	0.76188
210	0.75970	0.75752	0.75533	0.75315	0.75096	0.74876	0.74657	0.74436	0.74216	0.73991
220	0.73767	0.73542	0.73318	0.73092	0.72867	0.72642	0.72417	0.72191	0.71967	0.71742
230	0.71516	0.71290	0.71065	0.70839	0.70613	0.70388	0.70162	0.69937	0.69711	0.69490
240	0.69268	0.69045	0.68820	0.68595	0.68370	0.68145	0.67921	0.67696	0.67471	0.67246
250	0.67021	0.66796	0.66570	0.66345	0.66120	0.65894	0.65667	0.65440	0.65214	0.64989
260	0.64763	0.64537	0.64310	0.64082	0.63854	0.63626	0.63397	0.63168	0.62938	0.62707
270	0.62477	0.62243	0.62007	0.61773	0.61538	0.61308	0.61075	0.60843	0.60616	0.60392
280	0.60169	0.59945	0.59721	0.59496	0.59271	0.59043	0.58817	0.58590	0.58363	0.58136
290	0.57943	0.57708	0.57472	0.57241	0.57010	0.56778	0.56543	0.56311	0.56091	0.55883
300	0.55673	0.55460	0.55244	0.55025	0.54804	0.54580	0.54354	0.54125	0.53893	0.53659
310	0.53422	0.53182	0.52940	0.52695	0.52447	0.52197	0.51944	0.51688	0.51445	0.51214
320	0.50982	0.50750	0.50519	0.50287	0.50055	0.49824	0.49592	0.49360	0.49129	0.48897
330	0.48665	0.48433	0.48202	0.47970	0.47738	0.47507	0.47275	0.47043	0.46812	0.46580
340	0.46348	0.46117	0.45885	0.45653	0.45421	0.45190	0.44958	0.44726	0.44495	0.44263
350	0.44031	0.43800	0.43568	0.43337	0.43106	0.42875	0.42644	0.42413	0.42181	0.41950
360	0.41718	0.41487	0.41256	0.41024	0.40793	0.40561	0.40330	0.40098	0.39867	0.39636
370	0.39404	0.39173	0.38941	0.38710	0.38478	0.38247	0.38016	0.37784	0.37552	0.37320
380	0.37088	0.36856	0.36624	0.36392	0.36160	0.35928	0.35696	0.35464	0.35232	0.35000
390	0.34767	0.34535	0.34303	0.34071	0.33839	0.33607	0.33375	0.33143	0.32911	0.32678
400	0.32446	0.32214	0.31982	0.31750	0.31518	0.31286	0.31054	0.30822	0.30590	0.30358
410	0.30126	0.29894	0.29662	0.29429	0.29197	0.28966	0.28733	0.28501	0.28269	0.28037
420	0.27805	0.27573	0.27341	0.27109	0.26877	0.26645	0.26413	0.26181	0.25949	0.25717
430	0.25485	0.25253	0.25021	0.24789	0.24557	0.24325	0.24093	0.23861	0.23629	0.23397
440	0.23165	0.22933	0.22701	0.22469	0.22237	0.22005	0.21773	0.21541	0.21309	0.21077

This document is uncontrolled when printed. Verify current revision before use.



Title:	Silicon Diode Temperature Sensor, Model Si415 (10 µA)				
Doc. No.:	020-142	Rev.:	A	Approved:	Adam K.
Type:	Typical Response		Date:	8/26/2020	
Schd. Dwg. Ref.:		Size:	A	Sheet:	1 of 1