

0.3K1A341 Series V Thermistor



- Thermally conductive epoxy coating
- Ø 2.4 mm Maximum Diameter
- 32 AWG Alloy 180 Leads
- RoHS Compliant

DESCRIPTION

The BetaCURVE Chip is Soldered to 32 AWG Alloy 180 Leads and Encapsulated in Stycast Epoxy Resin

FEATURES

- Interchangeability
- Proven Stability and Reliability
- Rapid time response
- Alloy lead wires for reduced thermal conductivity ("stem effect")
- Thermally Conductive Epoxy Coating
- Temperature range -40 °C to +100°C

APPLICATIONS

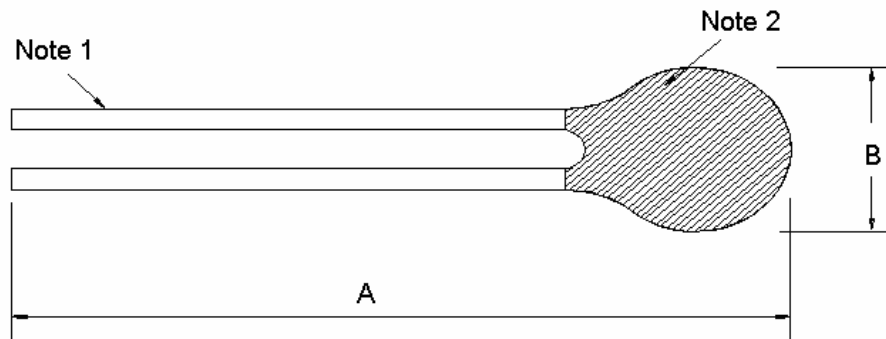
- Temperature sensing, control and compensation
- Suitable for measurement applications at the lower temperature ranges
- Assembly into probes used in low temperature applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	300
Resistance tolerance from 0°C to +25°C	°C	1.5
Alpha Value @ 25°C	%/°C	3.5
Beta Value 25/85	K	3187
Tolerance on Beta Value 25/85	%	1
Time response in Liquids	Seconds	<1
Dissipation Constant in still air	mW/°C	0.75

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MECHANICAL DETAILS



	Dimensions	
	A	B
	76 ± 2mm	2.4mm Max
Note 1	32 AWG Solid Alloy 180 Leads	
Note 2	Black Stycast 2850ft Epoxy	

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
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-40	4815
-39	4572
-38	4343
-37	4127
-36	3923
-35	3730
-34	3548
-33	3376
-32	3213
-31	3059
-30	2913
-29	2775
-28	2645
-27	2521
-26	2404
-25	2293
-24	2187
-23	2088
-22	1993
-21	1903
-20	1818
-19	1737

Temp. °C	Ohms
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-18	1660
-17	1587
-16	1518
-15	1452
-14	1389
-13	1329
-12	1272
-11	1218
-10	1167
-9	1118
-8	1071
-7	1027
-6	985
-5	944
-4	906
-3	869
-2	834
-1	801
0	769
1	739
2	710
3	682

Temp. °C	Ohms
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4	655
5	630
6	606
7	583
8	561
9	539
10	519
11	500
12	481
13	463
14	446
15	430
16	415
17	400
18	385
19	371
20	358
21	346
22	334
23	322
24	311
25	300

Temp. °C	Ohms
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26	290
27	280
28	270
29	261
30	252
31	244
32	236
33	228
34	221
35	213
36	207
37	200
38	193
39	187
40	181
41	176
42	170
43	165
44	160
45	155
46	150
47	145

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48	141	62	93	76	63	90	44
49	137	63	90	77	62	91	43
50	133	64	88	78	60	92	42
51	129	65	85	79	58	93	41
52	125	66	83	80	57	94	40
53	121	67	81	81	55	95	39
54	117	68	79	82	54	96	38
55	114	69	76	83	53	97	37
56	111	70	74	84	51	98	36
57	107	71	72	85	50	99	35
58	104	72	70	86	49	100	35
59	101	73	68	87	48		
60	98	74	67	88	46		
61	96	75	65	89	45		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
0.3K1A341	Series V Thermistor	300	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

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