

ZENER 0.5W VOLTAGE REGULATOR CHIP/DIE

CONFIGURATION: Zener 0.5W Voltage Regulator

- Die fabricated on a MIL-PRF-19500 JANKC qualified manufacturing line
- Class H and class K element evaluation per MIL-PRF-19500/533
- All ratings are @ Tc = 25 °C unless otherwise specified.
- Operating temperature: -55 °C to +175 °C and storage temperature: -65 °C to +175 °C

ELECTRICAL CHARACTERISTICS

Type 1/	VZ2 nom at IZ2	VZ1 at IZ1 250 µA	IZ2 test current	ZZT at IZ2	ZZK at 250 µA	IZM	VZ(reg) 2/	VR	IR1 at +25°C	IR2 at TA = +150°C	αvz
	V	minV	mA	Ω	Ω	mA	V	V	µA	µA	%/°C
1N6324	10.0	9.1	20	6	500	43	0.50	8.0	1.00	10	+0.79
1N6325	11.0	10.0	20	7	550	39	0.50	8.5	1.00	10	+0.82
1N6326	12.0	11.0	20	7	550	35	0.55	9.0	1.00	10	+0.83
1N6327	13.0	11.9	9.5	8	550	33	0.55	9.9	0.05	10	+0.83
1N6328	15.0	13.8	8.5	10	600	28	0.70	11.0	0.05	10	+0.84
1N6329	16.0	14.7	7.8	12	600	27	0.75	12.0	0.05	10	+0.84
1N6330	18.0	16.6	7.0	14	600	24	0.85	14.0	0.05	10	+0.85
1N6331	20.0	18.5	6.2	18	500	21	0.95	15.0	0.05	10	+0.86
1N6332	22.0	20.4	5.6	20	500	19	1.05	17.0	0.05	10	+0.87
1N6333	24.0	22.3	5.2	24	500	18	1.15	18.0	0.05	10	+0.88
1N6334	27.0	25.2	4.6	27	500	16	1.30	21.0	0.05	10	+0.90
1N6335	30.0	28.0	4.2	32	500	14	1.45	23.0	0.05	10	+0.91
1N6336	33.0	30.9	3.8	40	600	13	1.60	25.0	0.05	10	+0.92
1N6337	36.0	33.7	3.4	50	600	12.0	1.75	27.0	0.05	10	+0.93
1N6338	39.0	36.6	3.2	55	700	11.0	1.90	30	0.05	10	+0.94
1N6339	43.0	40.4	3.0	65	800	9.9	2.10	33	0.05	10	+0.95
1N6340	47.0	44.2	2.7	75	900	9.0	2.25	36	0.05	10	+0.95
1N6341	51.0	48.0	2.5	85	1000	8.3	2.50	39	0.05	10	+0.96
1N6342	56.0	52.7	2.2	100	1200	7.6	2.70	43	0.05	10	+0.97
1N6343	62.0	58.4	2.0	125	1300	6.8	2.90	47	0.05	10	+0.98
1N6344	68.0	64.1	1.8	155	1500	6.3	3.20	52	0.05	10	+1.01
1N6345	75.0	70.8	1.7	180	1600	5.7	3.40	56	0.05	10	+1.03
1N6346	82.0	77.4	1.5	220	1800	5.2	3.80	62	0.05	10	+1.05
1N6347	91.0	86.0	1.4	270	2100	4.7	4.20	69	0.05	10	+1.08
1N6348	100.0	94.5	1.3	340	2400	4.3	4.40	76	0.05	10	+1.10
1N6349	110.0	104.0	1.1	500	2800	3.9	4.80	84	0.05	10	+1.10
1N6350	120.0	113.0	1.0	600	3200	3.5	5.20	91	0.05	10	+1.10
1N6351	130.0	122.0	0.95	850	4100	3.3	5.60	99	0.05	10	+1.10

1/. For JANKCB, JANHCB, add suffix JANKCB or JANHCB to order. See next page for part order information.

2/. Vz (reg) = Vz at 50% IZM (at 90sec) - Vz at 10% IZM (at 90sec)

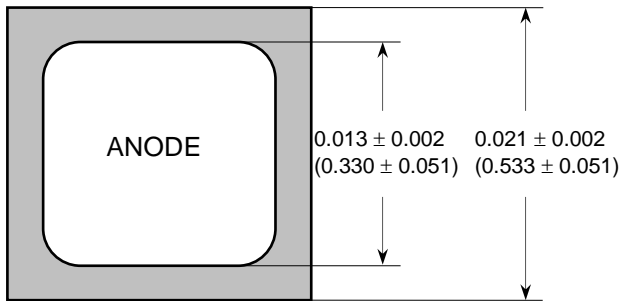
JANHCB1N6324 thru JANHCB1N6351
 JANKCB1N6324 thru JANKCB1N6351

ZENER 0.5W VOLTAGE REGULATOR
 CHIP/DIE

SENSITRON
SEMICONDUCTOR

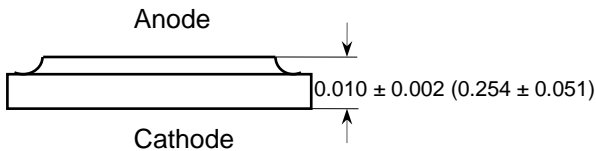
TECHNICAL DATA
 DATASHEET 5499, REV -

PACKAGE DIMENSIONS (inches/mm)



Top anode and bottom cathode

Top Metal Ti (0.3 kA) / Al (34 kA minimum)
 Bottom Metal Ti (1.2 kA) / Ni (1.8 kA) / Au (3.6 kA minimum)



PART ORDERING INFORMATION:

JAN_xCB1NXXXX

Quality Level

Part Number

Suffix	Part Number	Description
H	JANHCB6326	Class H Level
K	JANKCB6326	Class K Level

JANHCB1N6324 thru JANHCB1N6351
JANKCB1N6324 thru JANKCB1N6351

ZENER 0.5W VOLTAGE REGULATOR
CHIP/DIE

SENSITRON **SEMICONDUCTOR**

TECHNICAL DATA
DATASHEET 5499, REV -



DISCLAIMER:

- 1- *The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).*
- 2- *In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.*
- 3- *In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.*
- 4- *In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.*
- 5- *No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.*
- 6- *The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.*
- 7- *The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.*