

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 @ $T_c = 25^\circ\text{C}$ unless otherwise specified.
- Operating temperature: -65°C to $+175^\circ\text{C}$ and storage temperature: -65°C to $+175^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

Type 1/	V_{Z2} nom at I_{Z2}	V_{Z1} at I_{Z1} 250 μA	I_{Z2} test current	Z_{ZT} at I_{Z2}	Z_{ZK} at 250 μA	I_{ZM}	$V_{Z(\text{reg})}$ 2/	V_R	I_{R1} at $+25^\circ\text{C}$	I_{R2} at $T_A =$ $+150^\circ\text{C}$	α_{VZ}
	V	minV	mA	Ω	Ω	mA	V	V	μA	μA	%/ $^\circ\text{C}$
1N6325	11.0	10.0	20	7	550	39	0.50	8.5	1.00	10	+0.082
1N6326	12.0	11.0	20	7	550	35	0.55	9.0	1.00	10	+0.083
1N6327	13.0	11.9	9.5	8	550	33	0.55	9.9	0.05	10	+0.083
1N6328	15.0	13.8	8.5	10	600	28	0.70	11.0	0.05	10	+0.084
1N6329	16.0	14.7	7.8	12	600	27	0.75	12.0	0.05	10	+0.084
1N6330	18.0	16.6	7.0	14	600	24	0.85	14.0	0.05	10	+0.085
1N6331	20.0	18.5	6.2	18	500	21	0.95	15.0	0.05	10	+0.086
1N6332	22.0	20.4	5.6	20	500	19	1.05	17.0	0.05	10	+0.087
1N6333	24.0	22.3	5.2	24	500	18	1.15	18.0	0.05	10	+0.088
1N6334	27.0	25.2	4.6	27	500	16	1.30	21.0	0.05	10	+0.090
1N6335	30.0	28.0	4.2	32	500	14	1.45	23.0	0.05	10	+0.091
1N6336	33.0	30.9	3.8	40	600	13	1.60	25.0	0.05	10	+0.092
1N6337	36.0	33.7	3.4	50	600	12.0	1.75	27.0	0.05	10	+0.093
1N6338	39.0	36.6	3.2	55	700	11.0	1.90	30	0.05	10	+0.094
1N6339	43.0	40.4	3.0	65	800	9.9	2.10	33	0.05	10	+0.095
1N6340	47.0	44.2	2.7	75	900	9.0	2.25	36	0.05	10	+0.095
1N6341	51.0	48.0	2.5	85	1000	8.3	2.50	39	0.05	10	+0.096
1N6342	56.0	52.7	2.2	100	1200	7.6	2.70	43	0.05	10	+0.097
1N6343	62.0	58.4	2.0	125	1300	6.8	2.90	47	0.05	10	+0.098
1N6344	68.0	64.1	1.8	155	1500	6.3	3.20	52	0.05	10	+0.101
1N6345	75.0	70.8	1.7	180	1600	5.7	3.40	56	0.05	10	+0.103
1N6346	82.0	77.4	1.5	220	1800	5.2	3.80	62	0.05	10	+0.105
1N6347	91.0	86.0	1.4	270	2100	4.7	4.20	69	0.05	10	+0.108
1N6348	100.0	94.5	1.3	340	2400	4.3	4.40	76	0.05	10	+0.110
1N6349	110.0	104.0	1.1	500	2800	3.9	4.80	84	0.05	10	+0.110
1N6350	120.0	113.0	1.0	600	3200	3.5	5.20	91	0.05	10	+0.110
1N6351	130.0	122.0	0.95	850	4100	3.3	5.60	99	0.05	10	+0.110

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

2/. $V_Z(\text{reg}) = V_Z$ at 50% I_{ZM} (at 90sec) - V_Z at 10% I_{ZM} (at 90sec)3/. Max $V_F = 1.4 \text{ Vdc}$ at $I_F = 1 \text{ Adc}$

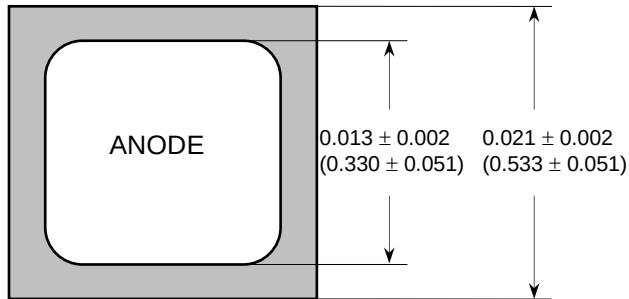
JANHCB1N6325 thru JANHCB1N6351
JANKCB1N6325 thru JANKCB1N6351

ZENER 0.5W VOLTAGE REGULATOR
CHIP/DIE

SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATASHEET 5499, REV A

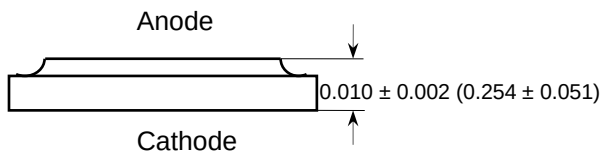
PACKAGE DIMENSIONS (inches/mm)



Top anode and bottom cathode

Top Metal: Ti (0.3 kÅ) / Al (45 kÅ nominal)

Bottom Metal: Ti (1.2 kÅ) / Ni (1.8 kÅ) / Au (4.0 kÅ nominal)



PART ORDERING INFORMATION:

JAN_xCB1NXXXX

Quality Level

Part Number

Suffix	Part Number	Description
H	JANHCB1N6335	Class H Level
K	JANKCB1N6335	Class K Level

JANHCB1N6325 thru JANHCB1N6351
JANKCB1N6325 thru JANKCB1N6351

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