

Low-Noise Voltage Regulator Chip/Die

CONFIGURATION: Low-Noise Voltage

- Die fabricated on a MIL-PRF-19500 JANKC qualified manufacturing line
- Class H and class K element evaluation per MIL-PRF-19500/437
- All ratings are @ $T_c = 25\text{ }^\circ\text{C}$ unless otherwise specified
- Operating and storage temperature: $-65\text{ }^\circ\text{C}$ to $+175\text{ }^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

PART NUMBER	NOMINAL ZENER VOLTAGE	ZENER TEST CURRENT	MAX ZENER IMPEDANCE	FORWARD VOLTAGE	MAX REVERSE CURRENT $I_R @ V_R$			MAX ZENER CURRENT	MAX TEMP. COEFF. OF ZENER VOLTAGE
	NOTE (1)			NOTE (2)	NOTE (3)				
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	V_F	I_{R1}	I_{R2}	V_R	I_{ZM}	α_{VZ}
	V	mA	Ω	V dc	$\mu\text{A dc}$	$\mu\text{A dc}$	$\mu\text{A dc}$	mA	$\%/^\circ\text{C}$
1N5526B	6.8	1.0	30	1.1	1.0	5.0	6.2	56	+0.052
1N5527B	7.5	1.0	35	1.1	0.5	5.0	6.8	51	+0.058
1N5528B	8.2	1.0	40	1.1	0.5	5.0	7.5	46	+0.062
1N5529B	9.1	1.0	45	1.1	1.0	5.0	8.2	42	+0.068
1N5530B	10.0	1.0	60	1.1	0.05	5.0	9.1	38	+0.075
1N5531B	11.0	1.0	80	1.1	0.05	5.0	9.9	35	+0.075
1N5532B	12.0	1.0	90	1.1	0.05	5.0	10.8	32	+0.08
1N5533B	13.0	1.0	90	1.1	0.01	5.0	11.7	29	+0.08
1N5534B	14.0	1.0	100	1.1	0.01	5.0	12.6	27	+0.082
1N5535B	15.0	1.0	100	1.1	0.01	5.0	13.5	25	+0.082
1N5536B	16.0	1.0	100	1.1	0.01	5.0	14.4	24	+0.083
1N5537B	17.0	1.0	100	1.1	0.01	5.0	15.3	22	+0.085
1N5538B	18.0	1.0	100	1.1	0.01	5.0	16.2	21	+0.085
1N5539B	19.0	1.0	100	1.1	0.01	5.0	17.1	20	+0.086
1N5540B	20.0	1.0	100	1.1	0.01	5.0	18.0	19	+0.086
1N5541B	22.0	1.0	100	1.1	0.01	5.0	19.8	17	+0.087
1N5542B	24.0	1.0	100	1.1	0.01	5.0	21.6	16	+0.088
1N5543B	25.0	1.0	100	1.1	0.01	5.0	22.4	15	+0.09
1N5544B	28.0	1.0	100	1.1	0.01	5.0	25.2	14	+0.091
1N5545B	30.0	1.0	100	1.1	0.01	5.0	27.0	13	+0.091
1N5546B	33.0	1.0	100	1.1	0.01	5.0	29.7	12	+0.092

1/. V_Z tolerance $\pm 5\%$.

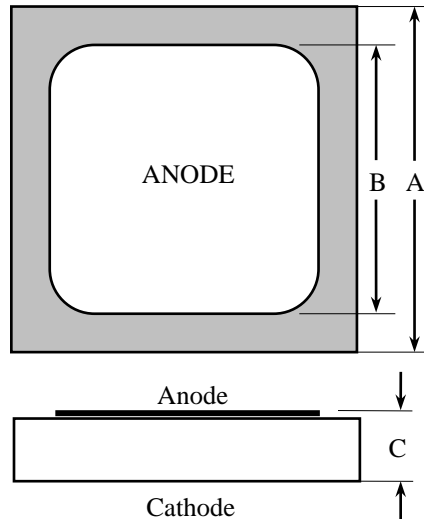
2/. $I_F = 200\text{ mA dc}$

3/. $I_{R2} @ T_A = 150\text{C}$

SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
 DATASHEET 6064, Rev -

PACKAGE DIMENSIONS (inches/mm):



Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	.023	.027	0.584	0.686
B	.015	.019	0.381	0.483
C	.008	.012	0.203	0.305

NOTES:

1. Dimensions are in inches.
2. Millimeter equivalents are given for general information only.
3. Anode is aluminum at 34,000 Å minimum.
4. Cathode is Ti 200Å nominal
 Au 4,350Å nominal.

JANHCD1N5526B thru JANHCD1N5546B
JANKCD1N5526B thru JANKCD1N5546B

LOW-NOISE VOLTAGE REGULATOR
CHIP/DIE

SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATASHEET 6064, Rev -

PART ORDERING INFORMATION:

JAN_xCD1NXXXXB

↓
Quality Level

↓
Part Number

Suffix	Part Number	Description
H	JANHCD1N5526B	Class H Level
K	JANKCD1N5526B	Class K Level

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.