

# **SENSITRON** **SEMICONDUCTOR**

SJ
SV
SX
SS

## **TECHNICAL DATA** **DATASHEET 5095, Rev A.1**

### **Zener 1.5W DIODE**

- Zener voltage available from 12V to 100V
- Sharp Zener knee
- Metallurgically bonded

Type Number	Nominal Zener Voltage	Zener Test Current	Max Zener Impedance	Max Reverse Leakage Current		Max Zener Current
	Vz @ I <sub>ZT</sub>	I <sub>r</sub> @ 150C	Z <sub>zt</sub>	I <sub>r</sub>	I <sub>zsm</sub>	V <sub>r</sub>
	Volts	μA	ohms	μA dc	mA	Volts
1N4100-1/UR -1	7.5	250	200	10	51	5.70
1N4101-1/UR -1	8.2	250	200	1.0	46	6.24
1N4102-1/UR -1	8.7	250	200	1.0	44	6.61
1N4103-1/UR -1	9.1	250	200	1.0	42	6.92
1N4104-1/UR -1	10	250	200	1.0	38	7.60
1N4105-1/UR -1	11	250	200	.05	35	8.44
1N4106-1/UR -1	12.0	250	200	0.05	540	9.2
1N4107-1/UR -1	13.0	250	200	0.05	500	9.9
1N4108-1/UR -1	14.0	250	200	0.05	464	10.7
1N4109-1/UR -1	15.0	250	100	0.05	433	11.4
1N4110-1/UR -1	16.0	250	100	0.05	406	12.2
1N4111-1/UR -1	17.0	250	100	0.05	382	13.0
1N4112-1/UR -1	18.0	250	100	0.05	361	13.7
1N4113-1/UR -1	19.0	250	150	0.05	342	14.5
1N4114-1/UR -1	20.0	250	150	0.01	325	15.2
1N4115-1/UR -1	22.0	250	150	0.01	295	16.8
1N4116-1/UR -1	24.0	250	150	0.01	271	18.3
1N4117-1/UR -1	25.0	250	150	0.01	260	19.0
1N4118-1/UR -1	27.0	250	150	0.01	240	20.5
1N4119-1/UR -1	28.0	250	200	0.01	232	21.3
1N4120-1/UR -1	30.0	250	200	0.01	216	22.8
1N4121-1/UR -1	33.0	2.5	200	0.01	25.1	197
1N4122-1/UR -1	36.0	2.5	200	0.01	27.4	180
1N4123-1/UR -1	39.0	2.5	200	0.01	29.7	166
1N4124-1/UR -1	43.0	2.5	250	0.01	32.7	151
1N4125-1/UR -1	47.0	4.0	250	0.01	35.8	138
1N4126-1/UR -1	51.0	5.0	300	0.01	38.8	127
1N4127-1/UR -1	56.0	5.0	300	0.01	42.6	116
1N4128-1/UR -1	60.0	5.0	400	0.01	45.6	108
1N4129-1/UR -1	62.0	5.0	500	0.01	47.1	105
1N4130-1/UR -1	68.0	7.0	700	0.01	51.7	95
1N4131-1/UR -1	75.0	7.0	700	0.01	57.0	86
1N4132-1/UR -1	82.0	8.0	800	0.01	62.4	79
1N4133-1/UR -1	87.0	8.0	1,000	0.01	66.2	75
1N4134-1/UR -1	91.0	10.0	1,200	0.01	69.2	71
1N4135-1/UR -1	100.0	10.0	1,600	0.01	76.0	65

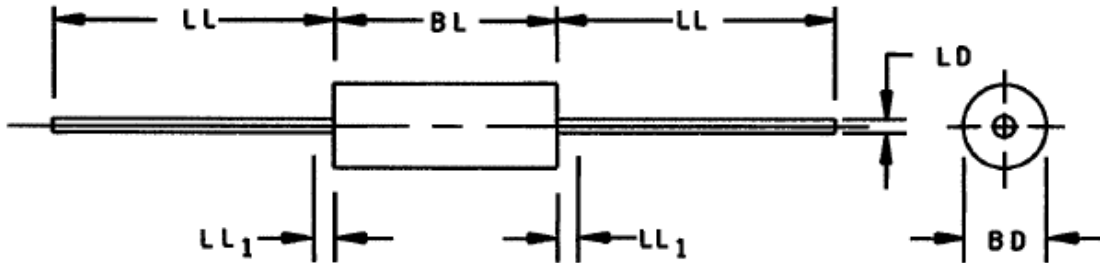
**SENSITRON**  
**SEMICONDUCTOR**

1N4100-1/ UR-1 to 1N4135-1/UR-1

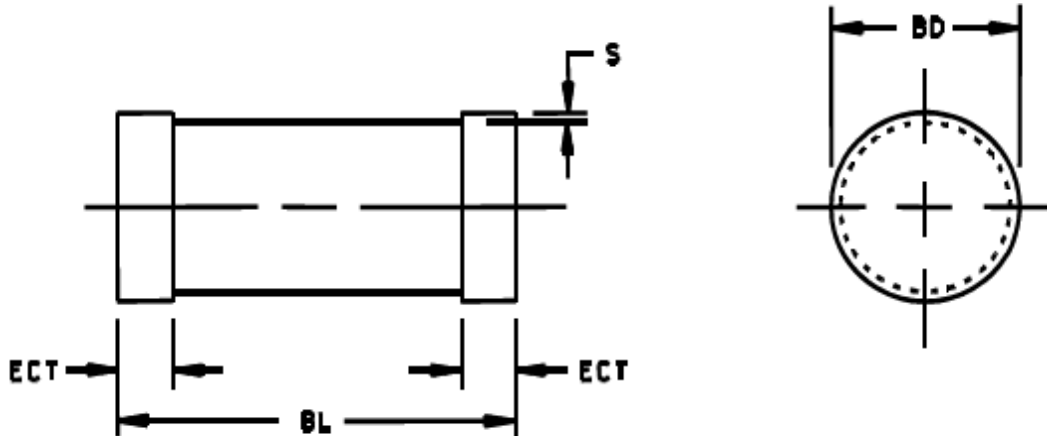
SJ  
SV  
SX  
SS

**TECHNICAL DATA**  
**DATASHEET 5095, Rev A.1**

Dimensions in inches (mm)



Ltr	Dimensions				Notes
	Inches		Millimeters		
	Min	Max	Min	Max	
BD	.055	.107	1.40	2.72	3
BL	.120	.300	3.05	7.62	3
LD	.018	.022	0.46	0.56	
LL	1.000	1.500	25.40	38.10	
LL1		.050		1.27	4



Symbol	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	.063	.067	1.60	1.70
ECT	.016	.022	0.41	0.56
BL	.130	.146	3.30	3.71
S	.001 min		0.03 min	

**SENSITRON**  
**SEMICONDUCTOR**

1N4100-1/UR-1 to 1N4135-1/UR-1

SJ  
SV  
SX  
SS

**TECHNICAL DATA**  
**DATASHEET 5095, Rev A.1**

**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.