1N4958/US thru 1N4989/US

<u>SENSITRON</u> SEMICONDUCTOR

ZENER 5W VOLTAGE REGULATOR

TECHNICAL DATA DATA SHEET 5070, REV. B.1

Zener 5W Voltage Regulator

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Operating and Storage Temperature: -65°C to +175°C
- All parts are 100% hot solder dipped
- JAN/ JANTX/ JANTXV available per MIL-PRF-19500/356
- JANS Plus removes atypical/out of family Vz

Available as 1N JAN, JANTX, JANTXV JANS JAN EQUIVALENT* SJ49XX*, SX49XX*, SV49XX* SS49XX*

5W Zener Diodes

Qualified per MIL-PRF-19500/356

							MAX R	EVERSE		MAX
SERIES TYPE	Vz NOM	TEST CURRENT		ZENER DANCE	VOLTAGE REGULATION			KAGE ENT@ V	TEMP. COEFF	CONTINUOUS CURRENT
	-	Iz	Zz	Z _{ZK}	Vz	I _{ZSM}	V _R	I _{R1}	αVz	I _{ZM}
5W	V	mA	Ω	Ω	V	А	V	μA	% /°C	mA
1N4958/US	10	125	2	125	.8	20	76	25	.07	475
1N4959/US	11	125	2.5	130	.8	19	8.4	10	.07	430
1N4960/US	12	100	2.5	140	.8	18	9.1	10	.07	395
1N4961/US	13	100	3	145	.9	16	9.9	10	.08	365
1N4962/US	15	75	3.5	150	1.0	12	11.4	5	.08	315
1N4963/US	16	75	3.5	155	1.1	10	12.2	5	.08	294
1N4964/US	18	65	4	160	1.2	9.0	13.7	5	.085	264
1N4965/US	20	65	4.5	165	1.5	8.0	15.2	2	.085	237
1N4966/US	22	50	5	170	1.8	7.0	16.7	2	.085	216
1N4967/US	24	50	5	175	2.0	6.5	18.2	2	.09	198
1N4968/US	27	50	6	180	2.0	6.0	20.6	2	.09	176
1N4969/US	30	40	8	190	2.5	5.5	22.8	2	.09	158
1N4970/US	33	40	10	200	2.8	5.0	25.1	2	.095	144
1N4971/US	36	30	11	220	3.0	4.5	27.4	2	.095	132
1N4972/US	39	30	14	230	3.0	4.0	29.7	2	.095	122
1N4973/US	43	30	20	240	3.3	3.5	32.7	2	.095	110
1N4974/US	47	25	25	250	3.5	3.2	35.8	2	.095	100
1N4975/US	51	25	27	270	4.0	3.0	38.8	2	.095	92
1N4976/US	56	20	35	320	4.4	2.8	42.6	2	.095	84
1N4977/US	62	20	42	400	5.0	2.5	47.1	2	.100	76
1N4978/US	68	20	50	500	5.5	2.2	51.7	2	.100	70
1N4979/US	75	20	55	620	6.0	2.0	56	2	.100	63
1N4980/US	82	15	80	720	6.6	1.8	62.2	2	.100	58.0
1N4981/US	91	15	90	760	7.5	1.6	69.2	2	.100	52.5
1N4982/US	100	12	110	800	8.0	1.4	76.0	2	.100	47.5
1N4983/US	110	12	125	1,000	9.0	1.2	83.6	2	.100	43.0
1N4984/US	120	10	170	1,150	10	1.0	91.2	2	.100	39.5
1N4985/US	130	10	190	1,250	11	.8	98.8	2	.105	36.6
1N4986/US	150	8	330	1,500	13	.75	114.0	2	.105	31.6
1N4987/US	160	8	350	1,650	14	.70	121.6	2	.105	29.4
1N4988/US	180	5	450	1,750	16	.60	136.8	2	.110	26.4
1N4989/US	200	5	500	1,850	18	.50	152.0	2	.110	23.6

*Sensitron equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our specification 7700-4093.

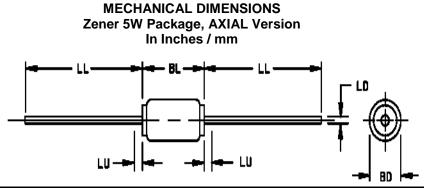
SENSITRON SEMICONDUCTOR

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ZENER 5W VOLTAGE REGULATOR

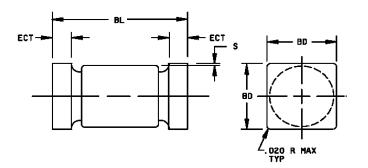
TECHNICAL DATA DATA SHEET 5070, REV. B.1

PACKAGE DIMENSIONS:



Dimensions						
Ltr	Inc	nes	Millim	Notes		
	Min	Max				
BL	.130	.300	3.30	4.95		
BD	.090	.145	2.92	4.70		
LL	1.00	1.300	25.40	33.02		
LU		.050		1.27	4	
LD	.037	.043	0.94	1.89	3	

MECHANICAL DIMENSIONS Zener 5W Package, MELF (/US version) In Inches / mm



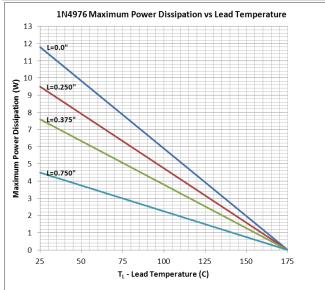
Dimensions					
Ltr	Inc	hes:	Millimeters		
	Min	Max	Min	Max	
BL	.200	.225	5.08	5.72	
ECT	.019	.028	0.48	0.71	
S	.003		0.08		
BD	.137	.148	3.48	3.76	

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GRAPHS:



PART ORDERING INFORMATION

The following part numbers can be purchased in either axial or surface mount devices and screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	*Part Number Leaded Package (example for 1N4958)
1N	1N4958
JAN	JAN1N4958
JANTX	JANTX1N4958
JANTXV	JANTXV1N4958
JANS	JANS1N4958
SJ	SJ4958
SX	SX4958
SV	SV4958
SS	SS4958

*Parts can also be ordered Tape & Reel

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X-ON Electronics

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Other Similar products are found below :

SEN-1993 JANTX1N5660A JANTX1N4965 JANTX1N4983 JANTXV1N6122AUS JANTX1N6119AUS JANTX1N5811US DATASEN-3497 GRP-DATA-JANS1N4476US JANS1N5615US SHD3262PS JANTX1N4958US 1N5811US SS5811 SEN-6471-1EM 1N5811USJANTX JANTX1N4487 JANTX1N4468 JANTX1N5550US JANS1N6328US JANS1N4469US JANS1N4479US JANTX1N4245 1N5622JANTX 1N5642AJANTX JANTX1N4973 1N5804US JANTX1N5635A JANTX1N4970 JANS1N4972 1N5621USJANTX JANTX1N5623US JANS1N5420US 1N6622U JANS1N5809US 1N5618JAN SDP610-025PA JAN1N4478US 1N4942JANTX SAL175UF3A 1N6107AUSJANTX 1N5552 1N5806USJANTX 1N5621 1N6642USJANTX JANTX1N4972US JANS1N6640 1N5802USJANTXV JANTX1N5650A JANTX1N4963