



# Frontier Electronics Corp.

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## 1.5 WATT SILICON ZENER DIODE

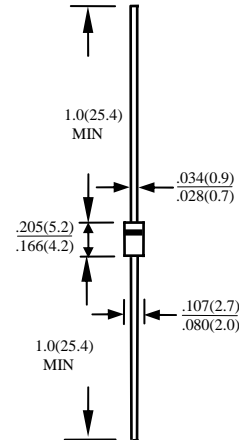
### IN5921B-LFR THRU IN5956B-LFR

#### FEATURES

- PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- LOW ZENER IMPEDANCE
- EXCELLENT CLAMPING CAPABILITY
- LEAD FREE

#### MECHANICAL DATA

- CASE: MOLDED PLASTIC, DO41, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: AXIAL LEADS SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: COLOR BAND DENOTES CATHODE
- MOUNTING POSITION: ANY
- WEIGHT: .34 GRAM



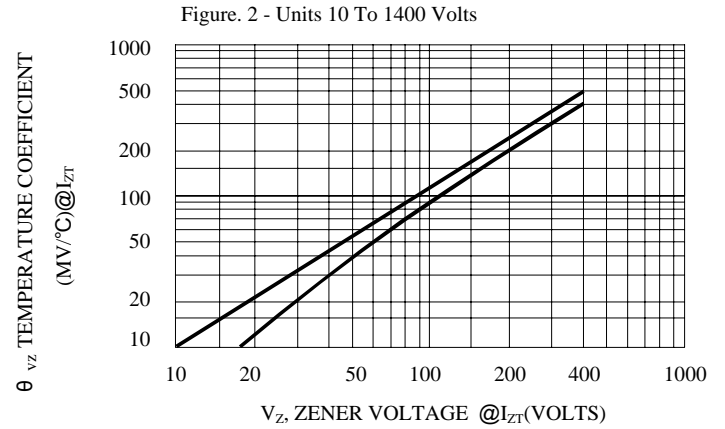
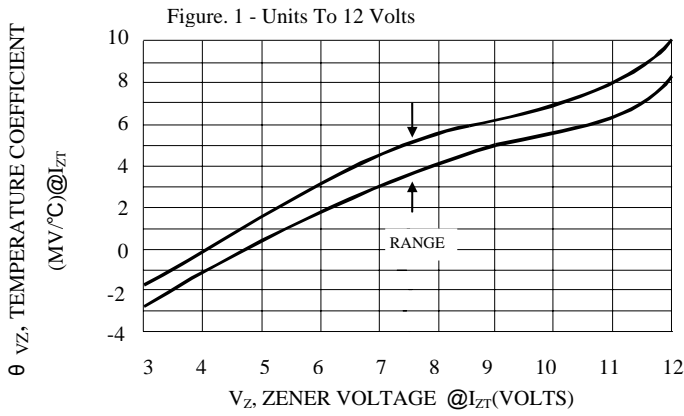
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55 TO +150°C

ELECTRICAL CHARACTERISTICS (TL=30°C UNLESS OTHERWISE NOTED VF=1.5V MAX, @IF = 200mA DC FOR ALL TYPES)								
JEDEC TYPE	NOMINAL ZENER VOLTS V <sub>Z</sub> @I <sub>ZT</sub> VOLTS	TEST CURRENT I <sub>ZT</sub> mA	MAXIMUM ZENER IMPEDANCE			MAX. REVERSE LEAKAGE CURRENT		MAXIMUM DC ZENER CURRENT I <sub>ZM</sub> mA DC
			Z <sub>ZT</sub> @ I <sub>ZT</sub> Ohms	Z <sub>ZK</sub> @ Ohms	I <sub>ZK</sub> mA	I <sub>R</sub> μA	@ V <sub>R</sub> VOLTS	
IN5921B-LFR	6.8	55.1	2.5	200	1	5	5.2	220
IN5922B-LFR	7.5	50.0	3	400	0.5	5	6	200
IN5923B-LFR	8.2	45.7	3.5	400	0.5	5	6.5	182
IN5924B-LFR	9.1	41.2	4	500	0.5	5	7	164
IN5925B-LFR	10	37.5	4.5	500	0.25	5	8	150
IN5926B-LFR	11	34.1	5.5	550	0.25	1	8.4	136
IN5927B-LFR	12	31.2	6.5	550	0.25	1	9.1	125
IN5928B-LFR	13	28.8	7	550	0.25	1	9.9	115
IN5929B-LFR	15	25.0	9	600	0.25	1	11.4	100
IN5930B-LFR	16	23.4	10	600	0.25	1	12.2	93
IN5931B-LFR	18	20.8	12	650	0.25	1	13.7	83
IN5932B-LFR	20	18.7	14	650	0.25	1	15.2	75
IN5933B-LFR	22	17.0	17.5	650	0.25	1	16.7	68
IN5934B-LFR	24	15.6	19	700	0.25	1	18.2	62
IN5935B-LFR	27	13.9	23	700	0.25	1	20.6	55
IN5936B-LFR	30	12.5	26	750	0.25	1	22.8	50
IN5937B-LFR	33	11.4	33	800	0.25	1	25.1	45
IN5938B-LFR	36	10.4	38	850	0.25	1	27.4	41
IN5939B-LFR	39	9.6	45	900	0.25	1	29.7	38
IN5940B-LFR	43	8.7	53	950	0.25	1	32.7	34
IN5941B-LFR	47	8.0	67	1000	0.25	1	35.8	31
IN5942B-LFR	51	7.3	70	1100	0.25	1	38.8	29
IN5943B-LFR	56	6.7	86	1300	0.25	1	42.6	26
IN5944B-LFR	62	6.0	100	1500	0.25	1	47.1	24
IN5945B-LFR	68	5.5	120	1700	0.25	1	51.7	22
IN5946B-LFR	75	5.0	140	2000	0.25	1	56	20
IN5947B-LFR	82	4.6	160	2500	0.25	1	62.2	18
IN5948B-LFR	91	4.1	200	3000	0.25	1	69.2	16
IN5949B-LFR	100	3.7	250	3100	0.25	1	76	15
IN5950B-LFR	110	3.4	300	4000	0.25	1	83.6	13
IN5951B-LFR	120	3.1	380	4500	0.25	1	91.2	12
IN5952B-LFR	130	2.9	450	5000	0.25	1	98.8	11
IN5953B-LFR	150	2.5	600	6000	0.25	1	114	10
IN5954B-LFR	160	2.3	700	6500	0.25	1	121.6	9
IN5955B-LFR	180	2.1	900	7000	0.25	1	136.8	8
IN5956B-LFR	200	1.9	1200	8000	0.25	1	152	7

NOTE: SUFFIX "B" FOR ± 5%

# RATINGS AND CHARACTERISTIC CURVES 1N5921B-LFR THRU 1N5956B-LFR

TEMPERATURE COEFFICIENT RANGES (90% of the Units are in the Ranges Indicated)



## ZENER VOLTAGE versus ZENER CURRENT

