



Frontier Electronics Corp.

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1 WATT ZENER DIODE

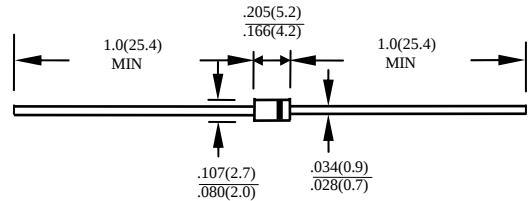
1N4736A-LFR THRU 1N4764A-LFR

FEATURES

- LOW COST
- SMALL SIZE
- ROHS

MECHANICAL DATA

- CASE: DO-41 DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: COLOR BAND DENOTES CATHODE
- MOUNTING POSITION: ANY
- WEIGHT: 0.34 GRAMS



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

ELECTRICAL CHARACTERISTICS (TA=25°C UNLESS OTHERWISE NOTED) VF=1.2V MAX, IF = 200mA FOR ALL TYPES

JEDEC TYPE NO	NOMINAL ZENER VOLTAGE V _Z @ I _{ZT} VOLTS	TEST CURRENT I _{ZT} mA	MAXIMUM ZENER IMPEDANCE			LEAKAGE CURRENT		SURGE CURRENT @ TA=25°C I _R - mA
			Z _{ZT} @ I _{ZT} OHMS	Z _{ZK} @ I _{ZK} OHMS	I _{ZK} mA	I _R μA MAX	V _R VOLTS	
1N4736A-LFR	6.8	37	3.5	700	1	10	4	660
1N4737A-LFR	7.5	34	4	700	0.5	10	5	605
1N4738A-LFR	8.2	31	4.5	700	0.5	10	6	550
1N4739A-LFR	9.1	28	5	700	0.5	10	7	500
1N4740A-LFR	10	25	7	700	0.25	10	7.6	454
1N4741A-LFR	11	23	8	700	0.25	5	8.4	414
1N4742A-LFR	12	21	9	700	0.25	5	9.1	380
1N4743A-LFR	13	19	10	700	0.25	5	9.9	344
1N4744A-LFR	15	17	14	700	0.25	5	11.4	304
1N4745A-LFR	16	15.5	16	700	0.25	5	12.2	285
1N4746A-LFR	18	14	20	750	0.25	5	13.7	250
1N4747A-LFR	20	12.5	22	750	0.25	5	15.2	225
1N4748A-LFR	22	11.5	23	750	0.25	5	16.7	205
1N4749A-LFR	24	10.5	25	750	0.25	5	18.2	190
1N4750A-LFR	27	9.5	35	750	0.25	5	20.6	170
1N4751A-LFR	30	8.5	40	1000	0.25	5	22.8	150
1N4752A-LFR	33	7.5	45	1000	0.25	5	25.1	135
1N4753A-LFR	36	7	50	1000	0.25	5	27.4	125
1N4754A-LFR	39	6.5	60	1000	0.25	5	29.7	115
1N4755A-LFR	43	6	70	1500	0.25	5	32.7	110
1N4756A-LFR	47	5.5	80	1500	0.25	5	35.8	95
1N4757A-LFR	51	5	95	1500	0.25	5	38.8	90
1N4758A-LFR	56	4.5	110	2000	0.25	5	42.6	80
1N4759A-LFR	62	4	125	2000	0.25	5	47.1	70
1N4760A-LFR	68	3.7	150	2000	0.25	5	51.7	65
1N4761A-LFR	75	3.3	175	2000	0.25	5	56	60
1N4762A-LFR	82	3	200	3000	0.25	5	62.2	55
1N4763A-LFR	91	2.8	250	3000	0.25	5	69.2	50
1N4764A-LFR	100	2.5	350	3000	0.25	5	76	45

NOTE : SUFFIX "A" FOR ± 5%

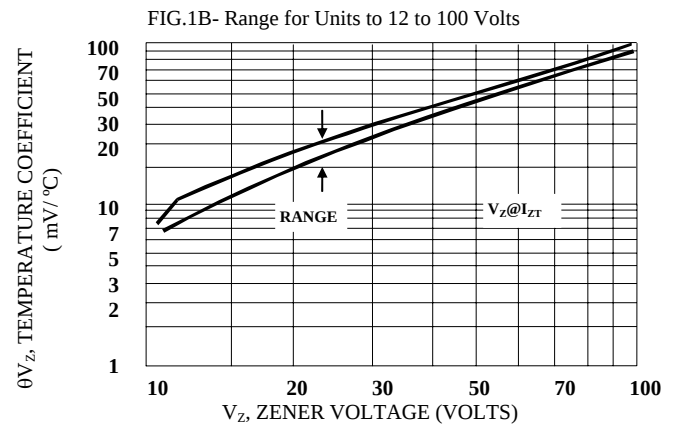
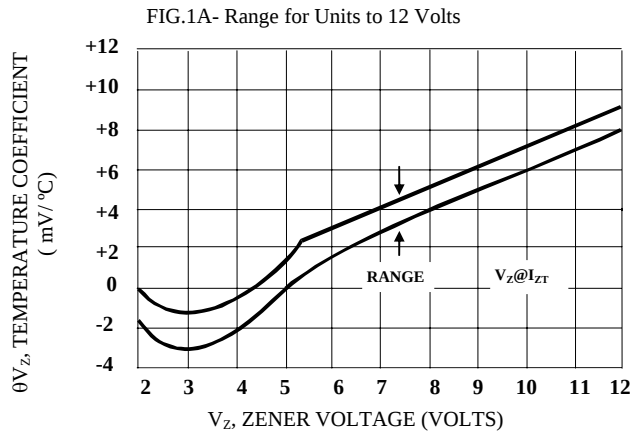


Figure 2. Temperature Coefficients (-55°C to +150°C temperature change; 90% of the units are in the ranges indicated.)

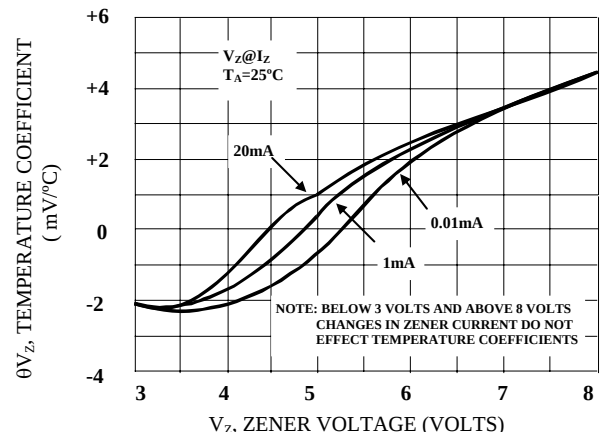
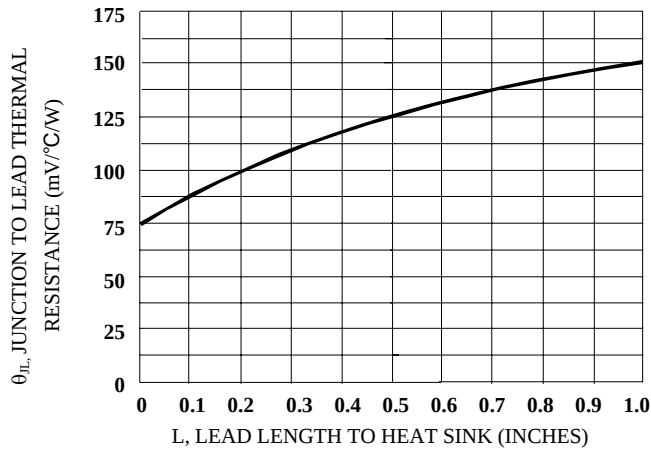


Figure 3. Typical Thermal Resistance versus Lead Length

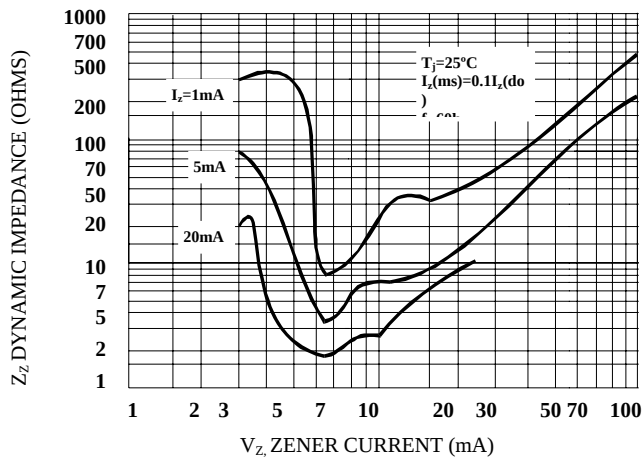


Figure 4. Effect of Zener Current

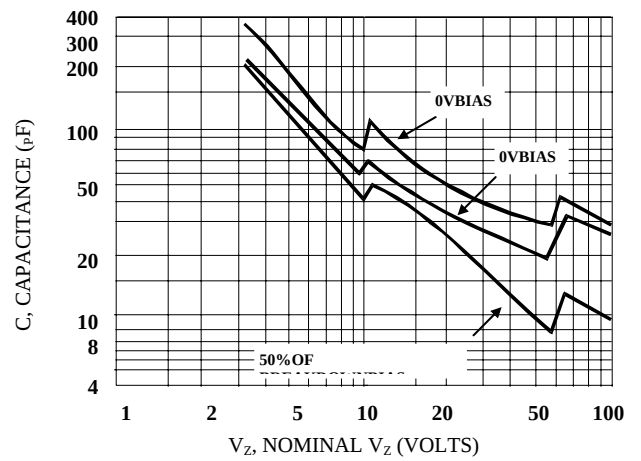


Figure 7 - Power Temperature De-rating Curve

