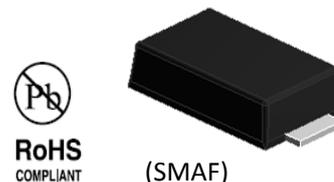


Features

- Total power dissipation: max, 3.0W
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile, typical thickness 1.0mm
- For use in stabilizing and clipping circuits with high power rating



Maximum Ratings and Thermal Characteristics			
(TA = 25 °C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Zener current		See Next Table	
Power dissipation	P _{tot}	3.0	W
Maximum instantaneous forward voltage at 200mA	V _F	1.2	V
Thermal resistance junction to ambient air	R _{thja}	85	°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175	°C

Note1: Thermal resistance from junction to mount, mounted on PCB with 8.0×8.0mm copper pads

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Part Number	Zener voltage		Test current	Dynamic impedance	Knee current	Knee impedance	Reverse current	Reverse voltage	Max.DC current
	V _Z /V		I _{ZT}	Z _{ZT}	I _{ZK}	Z _{ZK}	I _R (Max)	V _R	I _{ZM}
	V _Z (MIN)	V _Z (MAX)	m A	Ω	m A	Ω	μA _{dc}	V	m A
L3N5923B	7.79	8.61	45.7	3.5	0.5	400	5	6.5	182
L3N5924B	8.65	9.56	41.2	4	0.5	500	5	7	164
L3N5925B	9.5	10.5	37.5	4.5	0.25	500	5	8	150
L3N5926B	10.45	11.55	34.1	5.5	0.25	550	1	8.4	136
L3N5927B	11.4	12.6	31.2	6.5	0.25	550	1	9.1	125
L3N5928B	12.35	13.65	28.8	7	0.25	550	1	9.9	115

L3N5923B thru L3N5956B

Surface Mount Zener Diodes

Vz Range:8.2 to 200V Power Dissipation:3W

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Part Number	Zener voltage		Test current	Dynamic impedance	Knee current	Knee impedance	Reverse current	Reverse voltage	Max.DC current
	VZ /V		IZT	ZZT	IZK	ZZK	IR(Max)	VR	IZM
	Vz(MIN)	Vz(MAX)	m A	Ω	m A	Ω	μAdc	V	m A
L3N5929B	14.25	15.75	25	9	0.25	600	1	11.4	100
L3N5930B	15.2	16.8	23.4	10	0.25	600	1	12.2	93
L3N5931B	17.1	18.9	20.8	12	0.25	650	1	13.7	83
L3N5932B	19	21	18.7	14	0.25	650	1	15.2	75
L3N5933B	20.9	23.1	17	17.5	0.25	650	1	16.7	68
L3N5934B	22.8	25.2	15.6	19	0.25	700	1	18.2	62
L3N5935B	25.65	28.35	13.9	23	0.25	700	1	20.6	55
L3N5936B	28.5	31.5	12.5	28	0.25	750	1	22.8	50
L3N5937B	31.35	34.65	11.4	33	0.25	800	1	25.1	45
L3N5938B	34.2	37.8	10.4	38	0.25	850	1	27.4	41
L3N5939B	37.05	40.95	9.6	45	0.25	900	1	29.7	38
L3N5940B	40.85	45.15	8.7	53	0.25	950	1	32.7	34
L3N5941B	44.65	49.35	8	67	0.25	1000	1	35.8	31
L3N5942B	48.45	53.55	7.3	70	0.25	1100	1	38.8	29
L3N5943B	53.2	58.8	6.7	86	0.25	1300	1	42.6	26
L3N5944B	58.9	65.1	6	100	0.25	1500	1	47.1	24
L3N5945B	64.6	71.4	5.5	120	0.25	1700	1	51.7	22
L3N5946B	71.25	78.8	5	140	0.25	2000	1	56	20
L3N5947B	77.9	86.1	4.6	160	0.25	2500	1	62.2	18
L3N5948B	86.45	95.6	4.1	200	0.25	3000	1	69.2	16
L3N5949B	95	105	3.7	250	0.25	3100	1	76	15
L3N5950B	104.5	115.5	3.4	300	0.25	4000	1	83.6	13
L3N5951B	114	126	3.1	380	0.25	4500	1	91.2	12
L3N5952B	123.5	136.5	2.9	450	0.25	5000	1	98.8	11
L3N5953B	142.5	157.5	2.5	600	0.25	6000	1	114	10
L3N5954B	152	168	2.3	700	0.25	6500	1	121.6	9
L3N5955B	171	189	2.1	900	0.25	7000	1	136.8	8
L3N5956B	190	210	1.9	1200	0.25	8000	1	152	7

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

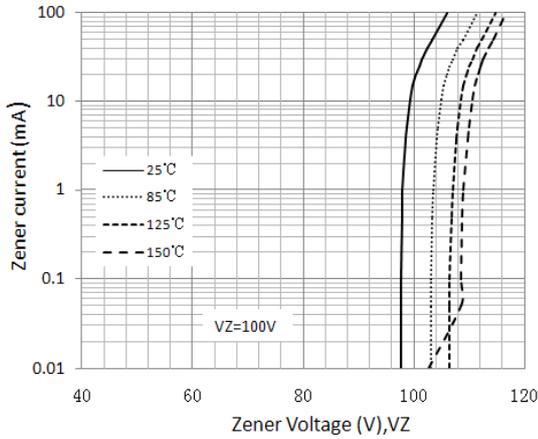


Figure 1. Typical Zener Voltage

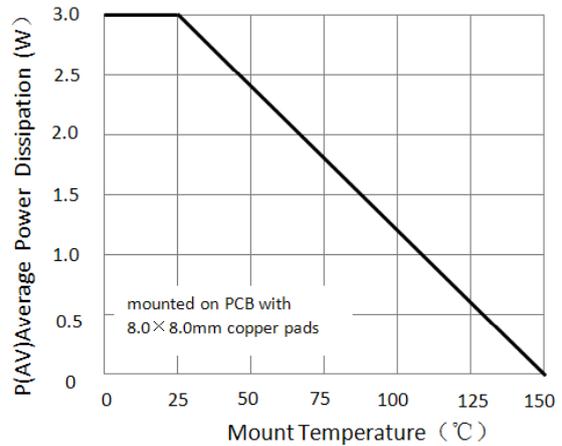


Figure 2. Steady State POWER Derating

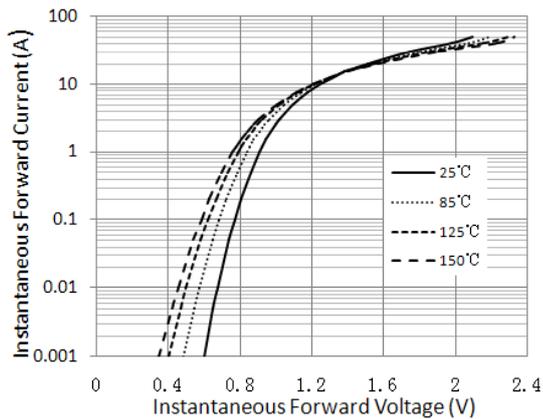


Figure 3. Typical Instantaneous Forward Characteristics

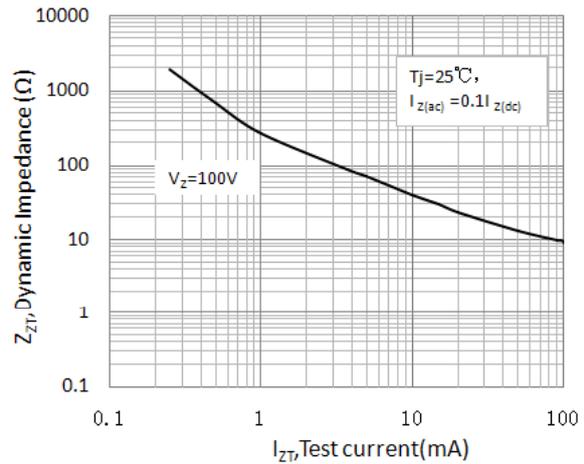


Figure 4. Typical Zener Impedance

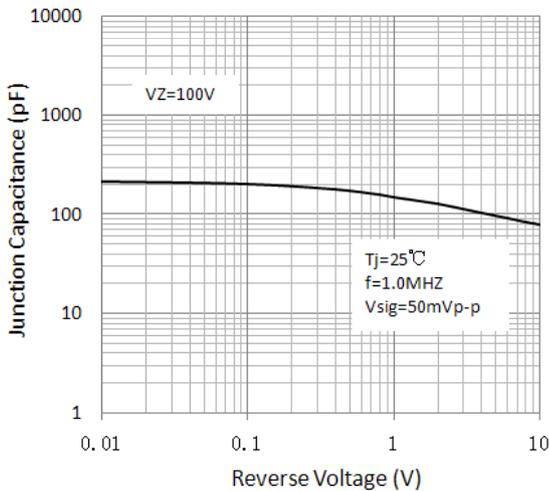


Figure 5. Typical Junction Capacitance

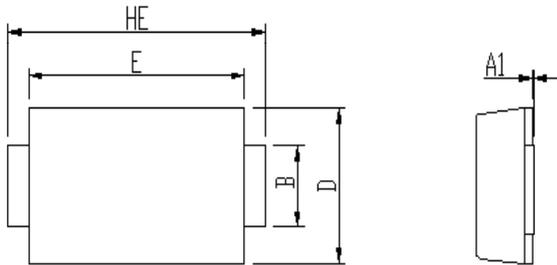
L3N5923B thru L3N5956B

Surface Mount Zener Diodes

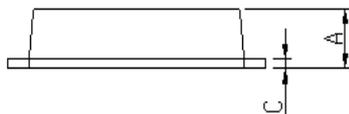
Vz Range:8.2 to 200V Power Dissipation:3W

Package Outline Dimensions

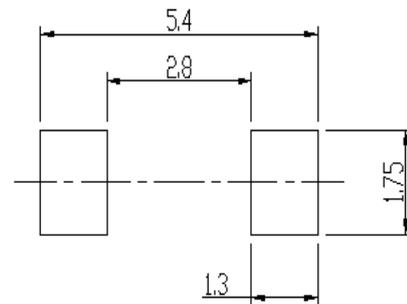
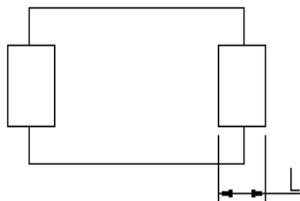
in inches (millimeters)



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
B	1.25	1.45	0.049	0.057
C	0.1	0.25	0.004	0.010
D	2.6	2.8	0.102	0.110
E	4.1	4.3	0.161	0.169
L	0.7	1.1	0.028	0.043
HE	4.8	5.2	0.189	0.205



Soldering footprint



Packing Information

Packing quantities:

10,000 pcs/Reel, 12mm Tape, 13" Reel

Tape & Reel Specification

