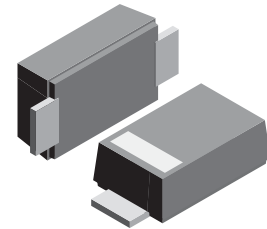


**VOLTAGE RANGE: 3.3 - 36V**  
**POWER: 1.0Watts**

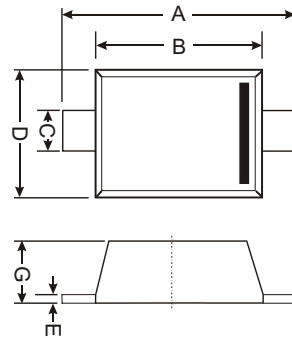
### Features

- Complete voltage range 3.3 to 36 volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Standard zener voltage tolerance is  $\pm 5\%$ .



### Mechanical Data

- Case: SOD-523, Plastic
- Case material - UL Flammability Rating Classification 94V-0
- Marking Code: LM
- Weight: 0.002 grams (approx.)



SOD-523		
Dim	Min	Max
A	1.50	1.70
B	1.10	1.30
C	0.25	0.35
D	0.70	0.90
E	0.10	0.20
G	0.50	0.70
All Dimensions in mm		

### Maximum Ratings T<sub>A</sub> = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T <sub>L</sub> = 75 °C (Note1)	P <sub>D</sub>	1.0	W
Maximum Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.2	V
Junction Temperature Range	T <sub>J</sub>	- 55 to + 150	°C
Storage Temperature Range	T <sub>s</sub>	- 55 to + 150	°C

**Note :**

(1) P.C.B. Mounted on 0.31x0.31x0.08" (8x8x2mm) copper areas pads.



## ELECTRICAL CHARACTERISTICS Rating at 25 °C ambient temperature unless otherwise specified

Type	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub> @ V <sub>R</sub>	I <sub>ZM</sub>	I <sub>RM</sub> <sup>(2)</sup>	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApk)
EDZ3.3B	3.3	76.0	10	400	1.0	100	1.0	276	1380
EDZ3.6B	3.6	69.0	10	400	1.0	100	1.0	252	1260
EDZ3.9B	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
EDZ4.3B	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
EDZ4.7B	4.7	53.0	8.0	500	1.0	10	1.0	193	970
EDZ5.1B	5.1	49.0	7.0	550	1.0	10	1.0	178	890
EDZ5.6B	5.6	45.0	5.0	600	1.0	10	2.0	162	810
EDZ6.2B	6.2	41.0	2.0	700	1.0	10	3.0	146	730
EDZ6.8B	6.8	37.0	3.5	700	1.0	50	4.0	133	660
EDZ7.5B	7.5	34.0	4.0	700	0.5	50	5.0	121	605
EDZ8.2B	8.2	31.0	4.5	700	0.5	50	6.0	110	550
EDZ9.1B	9.1	28.0	5.0	700	0.5	50	7.0	100	500
EDZ10B	10	25.0	7.0	700	0.25	50	7.6	91	454
EDZ11B	11	23.0	8.0	700	0.25	50	8.4	83	414
EDZ12B	12	21.0	9.0	700	0.25	5.0	9.1	76	380
EDZ13B	13	19.0	10	700	0.25	5.0	9.9	69	344
EDZ15B	15	17.0	14	700	0.25	5.0	11.4	61	305
EDZ16B	16	15.5	16	700	0.25	5.0	12.2	57	285
EDZ18B	18	14.0	20	750	0.25	5.0	13.7	50	250
EDZ20B	20	12.5	22	750	0.25	5.0	15.2	45	225
EDZ22B	22	11.5	23	750	0.25	5.0	16.7	41	205
EDZ24B	24	10.5	25	750	0.25	5.0	18.2	38	190
EDZ27B	27	9.5	35	750	0.25	5.0	20.6	34	170
EDZ30B	30	8.5	40	1000	0.25	5.0	22.8	30	150
EDZ33B	33	7.5	45	1000	0.25	5.0	25.1	27	135
EDZ36B	36	7.0	50	1000	0.25	5.0	27.4	25	125

**Notes :**

(1) The type number listed have a standard tolerance on the nominal zener voltage of ± 5%.