

**VOLTAGE RANGE: 3.6 - 200V**  
**POWER: 2.0Watts**

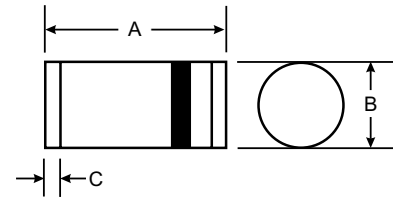


### Features

- Complete Voltage Range 3.6 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

### Mechanical Data

- Case : DO-213AB ,Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any



LL41/ DO-213AB		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
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>	2.0	Watts
Maximum Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R <sub>θJA</sub>	60	K / W
Junction Temperature Range	T <sub>J</sub>	- 55 to + 175	°C
Storage Temperature Range	T <sub>s</sub>	- 55 to + 175	°C

**Note :**

- (1) T<sub>L</sub> = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



## 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
	Vz @ IzT	IzT	ZzT @ IzT	Zzk @ Izk	Izk	I <sub>R</sub> @ V <sub>R</sub>		Iz <sub>M</sub>
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
SMZ3V6	3.6	139	5.0	400	1.0	80	1.0	504
SMZ3V9	3.9	128	5.0	400	1.0	30	1.0	468
SMZ4V3	4.3	116	4.5	400	1.0	20	1.0	434
SMZ4V7	4.7	106	4.5	550	1.0	5.0	1.0	386
SMZ5V1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
SMZ5V6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
SMZ6V2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
SMZ6V8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
SMZ7V5	7.5	66.5	2.0	700	0.5	50	5.0	242
SMZ8V2	8.2	61.0	2.3	700	0.5	50	6.0	220
SMZ9V1	9.1	55.0	2.5	700	0.5	50	7.0	200
SMZ10	10	50.0	3.5	700	0.25	50	7.6	182
SMZ11	11	45.5	4.0	700	0.25	50	8.4	166
SMZ12	12	41.5	4.5	700	0.25	1.0	9.1	152
SMZ13	13	38.5	5.0	700	0.25	0.5	9.9	138
SMZ14	14	35.7	5.5	700	0.25	0.5	10.6	130
SMZ15	15	33.4	7.0	700	0.25	0.5	11.4	122
SMZ16	16	31.2	8.0	700	0.25	0.5	12.2	114
SMZ17	17	29.4	9.0	750	0.25	0.5	13.0	107
SMZ18	18	27.8	10	750	0.25	0.5	13.7	100
SMZ19	19	26.3	11	750	0.25	0.5	14.4	95
SMZ20	20	25.0	11	750	0.25	0.5	15.2	90
SMZ22	22	22.8	12	750	0.25	0.5	16.7	82
SMZ24	24	20.8	13	750	0.25	0.5	18.2	76
SMZ27	27	18.5	18	750	0.25	0.5	20.6	68
SMZ30	30	16.6	20	1000	0.25	0.5	22.5	60
SMZ33	33	15.1	23	1000	0.25	0.5	25.1	55
SMZ36	36	13.9	25	1000	0.25	0.5	27.4	50
SMZ39	39	12.8	30	1000	0.25	0.5	29.7	47
SMZ43	43	11.6	35	1500	0.25	0.5	32.7	43
SMZ47	47	10.6	40	1500	0.25	0.5	35.8	39
SMZ51	51	9.8	48	1500	0.25	0.5	38.8	36
SMZ56	56	9.0	55	2000	0.25	0.5	42.6	32
SMZ62	62	8.1	60	2000	0.25	0.5	47.1	29
SMZ68	68	7.4	75	2000	0.25	0.5	51.7	27
SMZ75	75	6.7	90	2000	0.25	0.5	56.0	24
SMZ82	82	6.1	100	3000	0.25	0.5	62.2	22
SMZ91	91	5.5	125	3000	0.25	0.5	69.2	20
SMZ100	100	5.0	175	3000	0.25	0.5	76.0	18
SMZ110	110	4.5	250	4000	0.25	0.5	83.6	17
SMZ120	120	4.2	325	4500	0.25	0.5	91.2	15
SMZ130	130	3.8	400	5000	0.25	0.5	98.8	14
SMZ140	140	3.6	500	5500	0.25	0.5	106.4	13
SMZ150	150	3.3	575	6000	0.25	0.5	114.0	12
SMZ160	160	3.1	650	6500	0.25	0.5	121.6	11
SMZ170	170	2.9	675	7000	0.25	0.5	130.4	11
SMZ180	180	2.8	725	7000	0.25	0.5	136.8	10
SMZ190	190	2.6	825	8000	0.25	0.5	144.8	10
SMZ200	200	2.5	900	8000	0.25	0.5	152.0	9.0