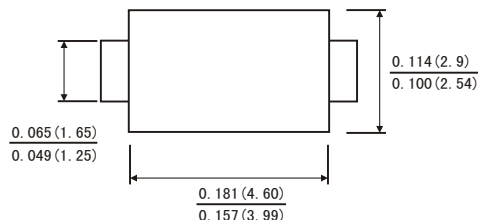


### FEATURES

- Low leakage, low zener impedance at low current
- Maximum power dissipation of 1W is ideally suited for stabilized power supply, etc.
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

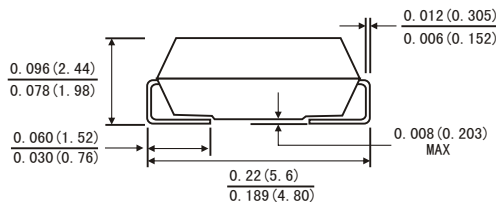


### SMA(DO-214AC)



### MECHANICAL DATA

- Case: JEDEC DO-214AC, R-1 and DO-41 package are upon request.
- Terminals: Solder plated
- *Polarity:* Color band denotes cathode end



Dimensions in inches and (millimeters)

### ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) (TA=25°C)

	<i>Symbols</i>	<i>Value</i>	<i>Units</i>
Zener current see table "Characteristics"			
Power dissipation	P <sub>tot</sub>	1 <sup>1)</sup>	W
Junction temperature	T <sub>J</sub>	175	°C
Storage temperature range	T <sub>STG</sub>	-55 to +175	°C

1) Thermal resistance from junction to terminal mounted on 5X5mm copper pad area.

### ELECTRICAL CHARACTERISTICS (TA=25°C)

	<i>Symbols</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>	<i>Units</i>
Thermal resistance junction to ambient	R <sub>θJA</sub>			105 <sup>1)</sup>	°C/W
Forward voltage at I <sub>F</sub> =200mA	V <sub>F</sub>			1.2	V

1) Thermal resistance from junction to terminal mounted on 5X5mm copper pad area.

# SMA4728... PLASTIC PACKAGE ZENER DIODES

Electrical characteristics (TA=25°C)

Type	Nominal Zener voltage		Maximum Zener impedance			Maximum reverse leakage current		Max regulator zener current
	Vz@IzT	IzT	ZzT@IzT	Zzx@Izx	Izx	IR@VR	VR	Izm@50°C
	V	mA	Ω	Ω	mA	uA	V	mA
SMA4728	3.3	76	10	400	1.0	100	1	276
SMA4729	3.6	69	10	400	1.0	100	1	252
SMA4730	3.9	64	9	400	1.0	50	1	234
SMA4731	4.3	58	9	400	1.0	10	1	217
SMA4732	4.7	53	8	500	1.0	10	1	193
SMA4733	5.1	49	7	550	1.0	10	1	178
SMA4734	5.6	45	5	600	1.0	10	2	162
SMA4735	6.2	41	2	700	1.0	10	3	146
SMA4736	6.8	37	3.5	700	1.0	10	4	133
SMA4737	7.5	34	4.0	700	0.5	10	5	121
SMA4738	8.2	31	4.5	700	0.5	10	6	110
SMA4739	9.1	28	5.0	700	0.25	10	7	100
SMA4740	10	25	7	700	0.25	10	7.6	91
SMA4741	11	23	8	700	0.25	10	8.4	83
SMA4742	12	21	9	700	0.25	5	9.1	76
SMA4743	13	19	10	700	0.25	5	9.9	69
SMA4744	15	17	14	700	0.25	5	11.4	61
SMA4745	16	15.5	16	700	0.25	5	12.2	57
SMA4746	18	14	20	750	0.25	5	13.7	50
SMA4747	20	12.5	22	750	0.25	5	15.2	45
SMA4748	22	11.5	23	750	0.25	5	16.7	41
SMA4749	24	10.5	25	750	0.25	5	18.2	38
SMA4750	27	9.5	35	750	0.25	5	20.6	34
SMA4751	30	8.5	40	1000	0.25	5	22.8	30
SMA4752	33	7.5	45	1000	0.25	5	25.1	27
SMA4753	36	7.0	50	1000	0.25	5	27.4	25
SMA4754	39	6.5	60	1000	0.25	5	29.7	23
SMA4755	43	6.1	70	1500	0.25	5	32.7	22
SMA4756	47	5.5	80	1500	0.25	5	25.8	19
SMA4757	51	5.0	95	1500	0.25	5	38.8	18
SMA4758	56	4.5	110	2000	0.25	5	42.6	16
SMA4759	62	4.0	125	2000	0.25	5	47.1	14
SMA4760	68	3.7	150	2000	0.25	5	51.7	13
SMA4761	75	3.3	175	2000	0.25	5	56.0	12
SMA4762	82	3.0	200	3000	0.25	5	62.2	11
SMA4763	91	2.8	250	3000	0.25	5	69.2	10
SMA4764	100	2.5	350	3000	0.25	5	76.0	9
SMA4765	110	2.3	450	4000	0.25	5	83.6	7.2
SMA4766	120	2.0	550	4500	0.25	5	91.2	7.0
SMA4767	130	1.9	700	5000	0.25	5	98.8	6.0
SMA4768	150	1.7	1000	6000	0.25	5	114.0	5.5
SMA4769	160	1.6	1100	6500	0.25	5	121.8	5.2
SMA4770	180	1.4	1200	7000	0.25	5	136.8	4.6
SMA4771	200	1.2	1500	8000	0.25	5	152.0	4.0

**Note:**

1. Standard zener voltage tolerance available is  $\pm 20\%$ . Add suffix "A" is for  $\pm 10\%$ . Add suffix "B" is for  $\pm 5\%$ .
2. For lead soldered package, the type name is 1N47XX.