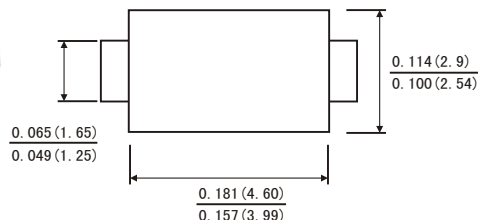


FEATURES

- Low leakage, low zener impedance at low current
- Maximum power dissipation of 1.5W is ideally suited for stabilized power supply, etc.
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

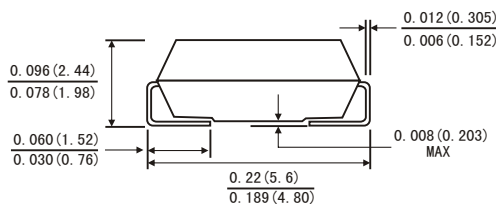


SMA(DO-214AC)



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 _{tot}	1.5 ¹⁾	W
Junction temperature	T _J	175	°C
Storage temperature range	T _{STG}	-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 _{θJA}			105 ¹⁾	°C/W
Forward voltage at I _F =200mA	V _F			1.5	V

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

SMA5921... 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
SMA5921	6.8	55.1	2.5	200	1.0	5.0	5.2	220
SMA5922	7.5	50.0	3.0	400	0.5	5.0	6.8	200
SMA5923	8.2	45.7	3.5	400	0.5	5.0	6.5	182
SMA5924	9.1	41.2	4.0	500	0.5	5.0	7.0	164
SMA5925	10	37.5	4.5	500	0.25	5.0	8.0	150
SMA5926	11	34.1	5.5	550	0.25	1.0	8.4	136
SMA5927	12	31.2	6.5	550	0.25	1.0	9.1	125
SMA5928	13	28.8	7.0	550	0.25	1.0	9.9	115
SMA5929	15	25.0	9.0	600	0.25	1.0	11.4	100
SMA5930	16	23.4	10.0	600	0.25	1.0	12.2	93
SMA5931	18	20.8	12.0	650	0.25	1.0	13.7	83
SMA5932	20	18.7	14.0	650	0.25	1.0	15.2	75
SMA5933	22	17.0	17.5	650	0.25	1.0	16.7	68
SMA5934	24	15.6	19	700	0.25	1.0	18.2	62
SMA5935	27	13.9	23	700	0.25	1.0	20.6	55
SMA5936	30	12.5	26	750	0.25	1.0	22.8	50
SMA5937	33	11.4	33	800	0.25	1.0	25.1	45
SMA5938	36	10.4	38	850	0.25	1.0	27.4	41
SMA5939	39	9.6	45	900	0.25	1.0	29.7	38
SMA5940	43	8.7	53	950	0.25	1.0	32.7	34
SMA5941	47	8.0	67	1000	0.25	1.0	35.8	31
SMA5942	51	7.3	70	1100	0.25	1.0	38.8	29
SMA5943	56	6.7	86	1300	0.25	1.0	42.6	26
SMA5944	62	6.0	100	1500	0.25	1.0	47.1	24
SMA5945	68	5.5	120	1700	0.25	1.0	51.7	22
SMA5946	75	5.0	140	2000	0.25	1.0	56.0	20
SMA5947	82	4.6	160	2500	0.25	1.0	62.2	18
SMA5948	91	4.1	200	3000	0.25	1.0	69.2	16
SMA5949	100	3.7	250	3100	0.25	1.0	76.0	15
SMA5950	110	3.4	300	4000	0.25	1.0	83.6	13
SMA5951	120	3.1	380	4500	0.25	1.0	91.2	12
SMA5952	130	2.9	450	5000	0.25	1.0	98.8	11
SMA5953	150	2.5	600	6000	0.25	1.0	114.0	10
SMA5954	160	2.3	700	6500	0.25	1.0	121.6	9
SMA5955	180	2.1	900	7000	0.25	1.0	136.8	8
SMA5956	200	1.9	1200	8000	0.25	1.0	152.0	7

Note:

1. Standard zener voltage tolerance available is $\pm 20\%$. Add suffix "A" is for $\pm 10\%$ tolerance. Add suffix "B" is for $\pm 5\%$.
2. For lead soldered package, the type name is 1N59XX.