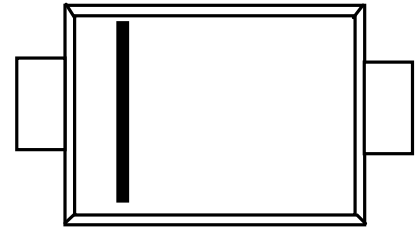


»Features

- Complete Voltage Range 2.7 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Epoxy : UL94V-O rate flame retardant



SMA(DO-214AC)

»General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SMA Plastic Package

» Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50^{\circ}\text{C}$ (Note1)	P_D	1	Watts
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.0	Volts
Junction Temperature Range	T_J	- 55 to + 150	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^{\circ}\text{C}$

»Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

T _{TYPE}	MARKING	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _Z @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R	I _{ZM}	
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μA) (V)	(mA)	
1SMA1A2P7	2P7	2.7	80	20	400	1.0	150	1.0	370
1SMA1A3P0	3P0	3.0	80	20	400	1.0	100	1.0	340
1SMA1A3P3	3P3	3.3	80	20	400	1.0	50	1.0	320
1SMA1A3P6	3P6	3.6	70	20	500	1.0	50	1.0	290
1SMA1A3P9	3P9	3.9	60	15	500	1.0	50	1.0	280
1SMA1A4P3	4P3	4.3	50	13	500	1.0	50	1.0	250
1SMA1A4P7	4P7	4.7	45	13	500	1.0	50	1.0	215
1SMA1A5P1	5P1	5.1	45	10	500	1.0	50	1.5	200
1SMA1A5P6	5P6	5.6	45	7.0	400	1.0	50	2.0	190
1SMA1A6P2	6P2	6.2	35	4.0	300	1.0	50	3.0	170
1SMA1A6P8	6P8	6.8	35	3.5	300	1.0	50	4.0	155
1SMA1A7V5	7P5	7.5	35	3.0	200	0.5	50	4.5	140
1SMA1A8P2	8P2	8.2	25	5.0	200	0.5	50	6.2	130
1SMA1A9P1	9P1	9.1	25	5.0	200	0.5	50	6.8	120
1SMA1A10	10	10	25	7.0	200	0.5	50	7.5	105
1SMA1A11	11	11	20	8.0	300	0.5	50	8.2	97
1SMA1A12	12	12	20	9.0	350	0.5	0.5	9.1	88
1SMA1A13	13	13	20	10	400	0.5	0.5	10	79
1SMA1A15	15	15	15	15	500	0.5	0.5	11	71
1SMA1A16	16	16	15	15	500	0.5	0.5	12	66
1SMA1A18	18	18	15	20	500	0.5	0.5	13	62
1SMA1A20	20	20	10	24	600	0.5	0.5	15	56
1SMA1A22	22	22	10	25	600	0.5	0.5	16	52
1SMA1A24	24	24	10	25	600	0.5	0.5	18	47
1SMA1A27	27	27	8.0	30	750	0.25	0.5	20	41
1SMA1A30	30	30	8.0	30	1000	0.25	0.5	22	36
1SMA1A33	33	33	8.0	35	1000	0.25	0.5	24	33
1SMA1A36	36	36	8.0	40	1000	0.25	0.5	27	30
1SMA1A39	39	39	6.0	50	1000	0.25	0.5	30	28
1SMA1A43	43	43	6.0	50	1000	0.25	0.5	33	26
1SMA1A47	47	47	4.0	90	1500	0.25	0.5	36	23
1SMA1A51	51	51	4.0	115	1500	0.25	0.5	39	21
1SMA1A56	56	56	4.0	120	2000	0.25	0.5	43	19
1SMA1A62	62	62	4.0	125	2000	0.25	0.5	47	16
1SMA1A68	68	68	4.0	130	2000	0.25	0.5	51	15
1SMA1A75	75	75	4.0	135	2000	0.25	0.5	56	14
1SMA1A82	82	82	2.7	200	3000	0.25	0.5	62	12
1SMA1A91	91	91	2.7	250	3000	0.25	0.5	68	10
1SMA1A100	100	100	2.7	350	3000	0.25	0.5	75	9.4
1SMA1A110	110	110	2.7	450	4000	0.25	0.5	82	8.6
1SMA1A120	120	120	2.0	550	4500	0.25	0.5	91	7.8
1SMA1A130	130	130	2.0	700	5000	0.25	0.5	100	7.0
1SMA1A150	150	150	2.0	1000	6000	0.25	0.5	110	6.4
1SMA1A160	160	160	1.5	1100	6500	0.25	0.5	120	5.8
1SMA1A180	180	180	1.5	1200	7000	0.25	0.5	130	5.2
1SMA1A200	200	200	1.5	1500	8000	0.25	0.5	150	4.7

»Typical Performance Characteristics (T_J = 25 °C, unless otherwise noted)

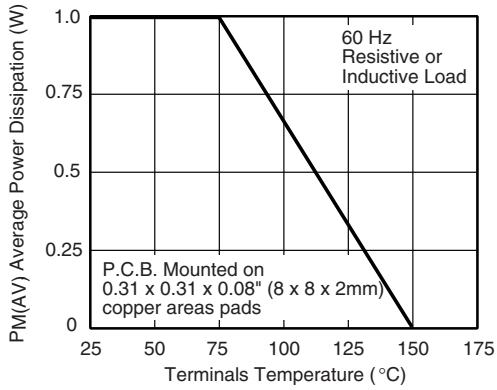


Fig. 1 - Maximum Continuous Power Dissipation

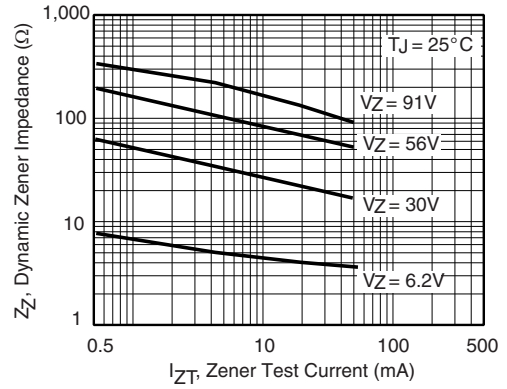


Fig. 2 - Typical Zener Impedance

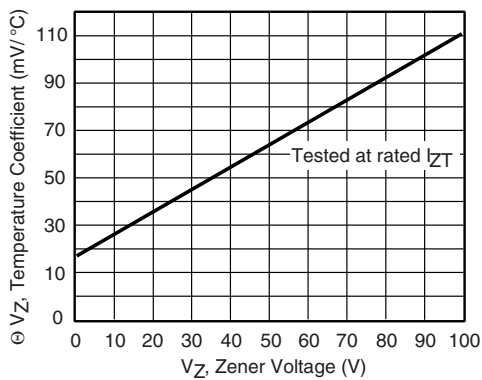


Fig. 3 - Typical Temperature Coefficients

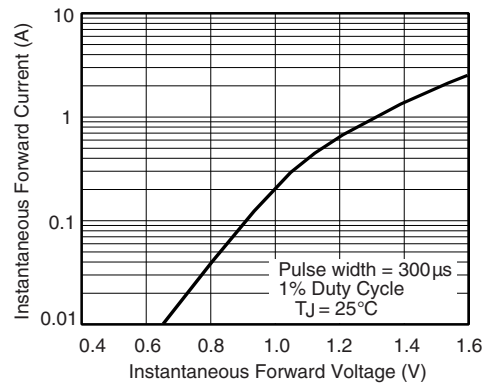


Fig. 4 - Typical Instantaneous Forward Characteristics for 1SMA1A91

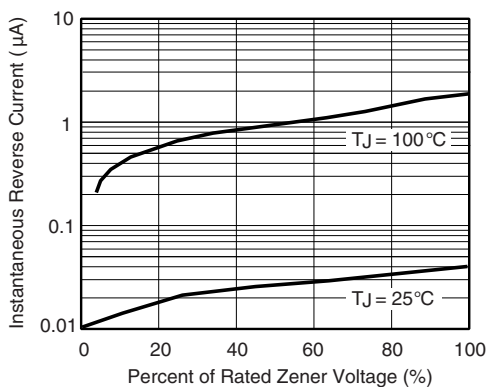
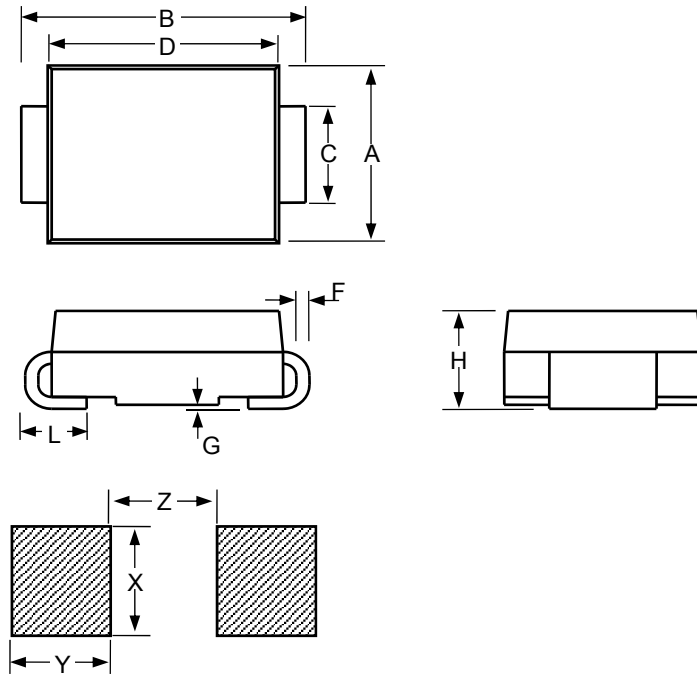


Fig. 5 - Typical Reverse Characteristics

»Package Information

SMA



SMA						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.1		0.11	2.54		2.8
B	0.194		0.223	4.93		5.66
C	0.051		0.067	1.3		1.7
D	0.157		0.177	3.99		4.5
F	0.006		0.012	0.152		0.305
G	-		0.008	-		0.203
H	0.078		0.095	1.98		2.42
L	0.03		0.06	0.76		1.52
X		0.085			2.16	
Y		0.07			1.78	
Z		0.079			2	

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