

VOLTAGE RANGE: 3.3V - 400V

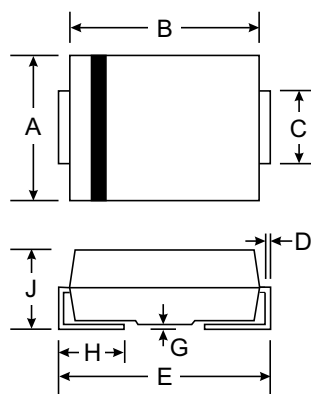
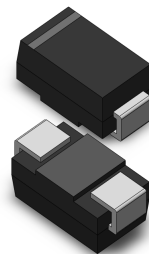
POWER: 1.0Watts

Features

- Complete voltage range 3.3 to 400 volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Standard zener voltage tolerance is $\pm 5\%$.

Mechanical Data

- Case : SMA (DO-214AC) Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead formed for Surface mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

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

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50^\circ\text{C}$ (Note1)	P_D	1.0	Watt
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\theta JA}$	170	K / W
Junction Temperature Range	T_J	- 55 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 175	$^\circ\text{C}$

Note :

(1) T_L = 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
	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)
1SMA4728A	3.3	76.0	10	400	1.0	100	1.0	276
1SMA4729A	3.6	69.0	10	400	1.0	100	1.0	252
1SMA4730A	3.9	64.0	9.0	400	1.0	50	1.0	234
1SMA4731A	4.3	58.0	9.0	400	1.0	10	1.0	217
1SMA4732A	4.7	53.0	8.0	500	1.0	10	1.0	193
1SMA4733A	5.1	49.0	7.0	550	1.0	10	1.0	178
1SMA4734A	5.6	45.0	5.0	600	1.0	10	2.0	162
1SMA4735A	6.2	41.0	2.0	700	1.0	10	3.0	146
1SMA4736A	6.8	37.0	3.5	700	1.0	50	4.0	133
1SMA4737A	7.5	34.0	4.0	700	0.5	50	5.0	121
1SMA4738A	8.2	31.0	4.5	700	0.5	50	6.0	110
1SMA4739A	9.1	28.0	5.0	700	0.5	50	7.0	100
1SMA4740A	10	25.0	7.0	700	0.25	50	7.6	91
1SMA4741A	11	23.0	8.0	700	0.25	50	8.4	83
1SMA4742A	12	21.0	9.0	700	0.25	5.0	9.1	76
1SMA4743A	13	19.0	10	700	0.25	5.0	9.9	69
1SMA4744A	15	17.0	14	700	0.25	5.0	11.4	61
1SMA4745A	16	15.5	16	700	0.25	5.0	12.2	57
1SMA4746A	18	14.0	20	750	0.25	5.0	13.7	50
1SMA4747A	20	12.5	22	750	0.25	5.0	15.2	45
1SMA4748A	22	11.5	23	750	0.25	5.0	16.7	41
1SMA4749A	24	10.5	25	750	0.25	5.0	18.2	38
1SMA4750A	27	9.5	35	750	0.25	5.0	20.6	34
1SMA4751A	30	8.5	40	1000	0.25	5.0	22.8	30
1SMA4752A	33	7.5	45	1000	0.25	5.0	25.1	27
1SMA4753A	36	7.0	50	1000	0.25	5.0	27.4	25
1SMA4754A	39	6.5	60	1000	0.25	5.0	29.7	23
1SMA4755A	43	6.0	70	1500	0.25	5.0	32.7	22
1SMA4756A	47	5.5	80	1500	0.25	5.0	35.8	19
1SMA4757A	51	5.0	95	1500	0.25	5.0	38.8	18
1SMA4758A	56	4.5	110	2000	0.25	5.0	42.6	16
1SMA4759A	62	4.0	125	2000	0.25	5.0	47.1	14
1SMA4760A	68	3.7	150	2000	0.25	5.0	51.7	13
1SMA4761A	75	3.3	175	2000	0.25	5.0	56.0	12
1SMA4762A	82	3.0	200	3000	0.25	5.0	62.2	11
1SMA4763A	91	2.8	250	3000	0.25	5.0	69.2	10
1SMA4764A	100	2.5	350	3000	0.25	5.0	76.0	9.0
1SMA1110A	110	2.3	450	4000	0.25	5.0	83.6	8.6
1SMA1120A	120	2.0	550	4500	0.25	5.0	91.2	7.8
1SMA1130A	130	1.9	700	5000	0.25	5.0	98.8	7.0
1SMA1150A	150	1.7	1000	6000	0.25	5.0	114.0	6.4
1SMA1160A	160	1.6	1100	6500	0.25	5.0	121.6	5.8
1SMA1180A	180	1.4	1200	7000	0.25	5.0	136.8	5.2
1SMA1200A	200	1.2	1500	8000	0.25	5.0	152.0	4.7

Note :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 10\%$.
A standard tolerance of $\pm 5\%$ on individual units is also available and is indicated by suffixing "A" to the standard type number.



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
	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)
1SMA1240A	240	0.93	1800	8500	0.25	5.0	182.4	3.8
1SMA1250A	250	0.90	2000	9000	0.25	5.0	190	3.6
1SMA1270A	270	0.82	2100	9000	0.25	5.0	205	3.3
1SMA1300A	300	0.75	2300	9500	0.25	5.0	228	3.0
1SMA1330A	330	0.70	2500	9500	0.25	5.0	250	2.8
1SMA1380A	380	0.60	2700	9500	0.25	5.0	288	2.4
1SMA1400A	400	0.55	2800	9500	0.25	5.0	304	2.3

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