



SMA4728A THRU SMA4764A SZ1110A THRU SZ1330A

Surface Mount SILICON ZENER DIODES
Zener Voltage 3.3 ~ 330 V
1.0 Watt Power Dissipation

FEATURES

The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0
For surface mounted applications
Super fast switching for high efficiency
Low reverse leakage
Built-in strain relief, ideal for automated placement
High forward surge current capability
High temperature soldering guaranteed:
260°C/10 seconds at terminals

MECHANICAL DATA

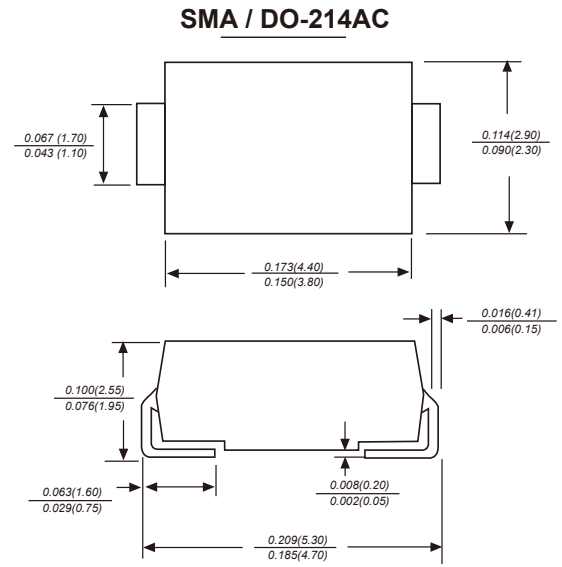
Case: JEDEC DO-214AC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams



Dimensions in inches and (millimeters)

Parameter	Symbols	Value	Unit
DC Power dissipation at TL = 50 °C ⁽¹⁾	P _D	1.0	W
Maximum forward voltage at if=200mA	V _F	1.2	V
Junction temperature range	T _J , T _{STG}	-55 to +150	°C
Storage temperature range	T _J , T _{STG}	-55 to +150	°C

Note :

(1) T_L=Lead temperature at 3/8" (9.5mm)from body





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Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (μA)@V _R	V _R (V)	
SMA4728A	28A	3.3	3.14	3.47	76.0	10.0	400.0	1.00	100.0	1.0	274.0
SMA4729A	29A	3.6	3.42	3.78	69.0	10.0	400.0	1.00	100.0	1.0	251.0
SMA4730A	30A	3.9	3.71	4.10	64.0	9.0	400.0	1.00	50.0	1.0	232.0
SMA4731A	31A	4.3	4.09	4.52	58.0	9.0	400.0	1.00	10.0	1.0	210.0
SMA4732A	32A	4.7	4.47	4.94	53.0	8.0	500.0	1.00	10.0	1.0	192.0
SMA4733A	33A	5.1	4.85	5.36	49.0	7.0	550.0	1.00	10.0	1.0	177.0
SMA4734A	34A	5.6	5.32	5.88	45.0	5.0	600.0	1.00	10.0	2.0	161.0
SMA4735A	35A	6.2	5.89	6.51	41.0	2.0	700.0	1.00	10.0	3.0	146.0
SMA4736A	36A	6.8	6.46	7.14	37.0	3.5	700.0	1.00	10.0	4.0	133.0
SMA4737A	37A	7.5	7.13	7.88	34.0	4.0	700.0	0.50	10.0	5.0	121.0
SMA4738A	38A	8.2	7.79	8.61	31.0	4.5	700.0	0.50	10.0	6.0	110.0
SMA4739A	39A	9.1	8.65	9.56	28.0	5.0	700.0	0.50	10.0	7.0	100.0
SMA4740A	40A	10.0	9.50	10.50	25.0	7.0	700.0	0.25	10.0	7.6	91.0
SMA4741A	41A	11.0	10.45	11.55	23.0	8.0	700.0	0.25	0.5	8.4	83.0
SMA4742A	42A	12.0	11.40	12.60	21.0	9.0	700.0	0.25	0.5	9.1	76.0
SMA4743A	43A	13.0	12.35	13.65	19.0	10.0	700.0	0.25	0.5	9.9	69.0
SMA4744A	44A	15.0	14.25	15.75	17.0	14.0	700.0	0.25	0.5	11.4	61.0
SMA4745A	45A	16.0	15.20	16.80	15.5	16.0	700.0	0.25	0.5	12.2	57.0
SMA4746A	46A	18.0	17.10	18.90	14.0	20.0	750.0	0.25	0.5	13.7	50.0
SMA4747A	47A	20.0	19.00	21.00	12.5	22.0	750.0	0.25	0.5	15.2	45.0
SMA4748A	48A	22.0	20.90	23.10	11.5	23.0	750.0	0.25	0.5	16.7	41.0
SMA4749A	49A	24.0	22.80	25.20	10.5	25.0	750.0	0.25	0.5	18.2	38.0
SMA4750A	50A	27.0	25.65	28.35	9.5	35.0	750.0	0.25	0.5	20.6	34.0
SMA4751A	51A	30.0	28.50	31.50	8.5	40.0	1000.0	0.25	0.5	22.8	30.0
SMA4752A	52A	33.0	31.35	34.65	7.5	45.0	1000.0	0.25	0.5	25.1	27.0
SMA4753A	53A	36.0	34.20	37.80	7.0	50.0	1000.0	0.25	0.5	27.4	25.0
SMA4754A	54A	39.0	37.05	40.95	6.5	60.0	1000.0	0.25	0.5	29.7	23.0
SMA4755A	55A	43.0	40.85	45.15	6.0	70.0	1500.0	0.25	0.5	32.7	22.0
SMA4756A	56A	47.0	44.65	49.35	5.5	80.0	1500.0	0.25	0.5	35.8	19.0
SMA4757A	57A	51.0	48.45	53.55	5.0	95.0	1500.0	0.25	0.5	38.8	18.0
SMA4758A	58A	56.0	53.20	58.80	4.5	110.0	2000.0	0.25	0.5	42.6	16.0
SMA4759A	59A	62.0	58.90	65.10	4.0	125.0	2000.0	0.25	0.5	47.1	14.0
SMA4760A	60A	68.0	64.60	71.40	3.7	150.0	2000.0	0.25	0.5	51.7	13.0
SMA4761A	61A	75.0	71.25	78.75	3.3	175.0	2000.0	0.25	0.5	56.0	12.0
SMA4762A	62A	82.0	77.90	86.10	3.0	200.0	3000.0	0.25	0.5	62.2	11.0
SMA4763A	63A	91.0	86.45	95.55	2.8	250.0	3000.0	0.25	0.5	69.2	10.0
SMA4764A	64A	100.0	95.00	105.00	2.5	350.0	3000.0	0.25	0.5	76.0	9.0
SZ1110A	11Z	110.0	104.50	115.50	2.3	450.0	4000.0	0.25	0.5	83.6	8.6
SZ1120A	12Z	120.0	114.00	126.00	2.0	550.0	4500.0	0.25	0.5	91.2	7.8
SZ1130A	13Z	130.0	123.50	136.50	1.9	700.0	5000.0	0.25	0.5	98.8	7.0
SZ1150A	15Z	150.0	142.50	157.50	1.7	1000.0	6000.0	0.25	0.5	114.0	6.4
SZ1160A	16Z	160.0	152.00	168.00	1.6	1100.0	6500.0	0.25	0.5	121.6	5.8
SZ1180A	18Z	180.0	171.00	189.00	1.4	1200.0	7000.0	0.25	0.5	136.8	5.2
SZ1200A	20Z	200.0	190.00	210.00	1.2	1900.0	9990.0	0.25	0.5	152.0	4.7
SZ1220A	22Z	220.0	209.00	231.00	1.0	1600.0	8000.0	0.25	0.5	167.2	4.0
SZ1240A	24Z	240.0	228.00	252.00	0.9	1800.0	8500.0	0.25	0.5	182.4	3.8
SZ1250A	25Z	250.0	237.50	262.50	0.9	2000.0	9000.0	0.25	0.5	190.0	3.6
SZ1270A	27Z	270.0	256.50	283.50	0.8	2100.0	9000.0	0.25	0.5	205.0	3.3
SZ1300A	30Z	300.0	285.00	315.00	0.8	2300.0	9500.0	0.25	0.5	228.0	3.0
SZ1330A	33Z	330.0	313.50	346.50	0.7	2500.0	9500.0	0.25	0.5	250.2	2.7





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FIG1: Maximum Continuous Power Dissipation

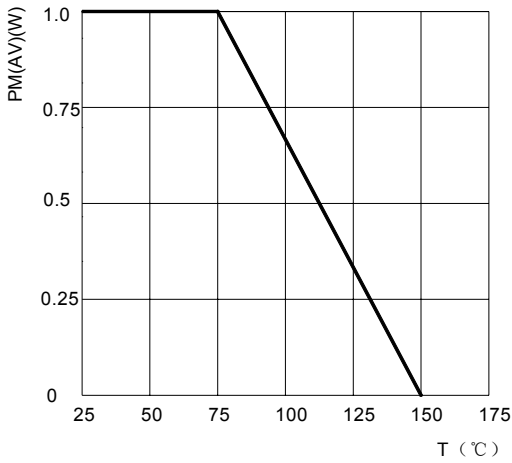


FIG2: Typical Zener Impedance

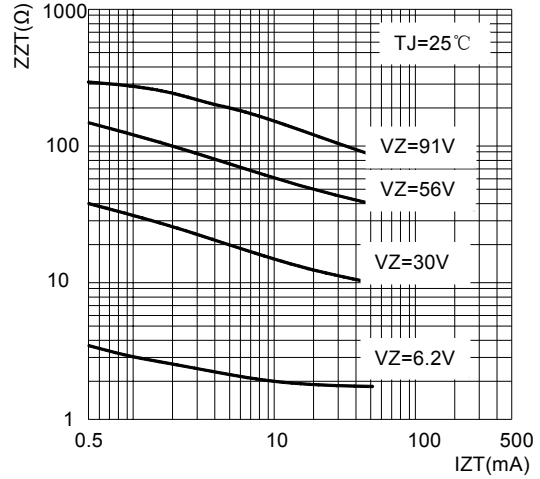


FIG3: Typical Temperature Coefficients

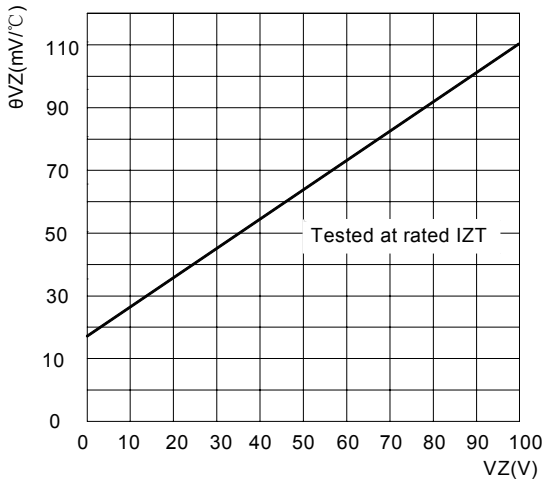


FIG4: Typical Instantaneous Forward Characteristics for SMA4763A

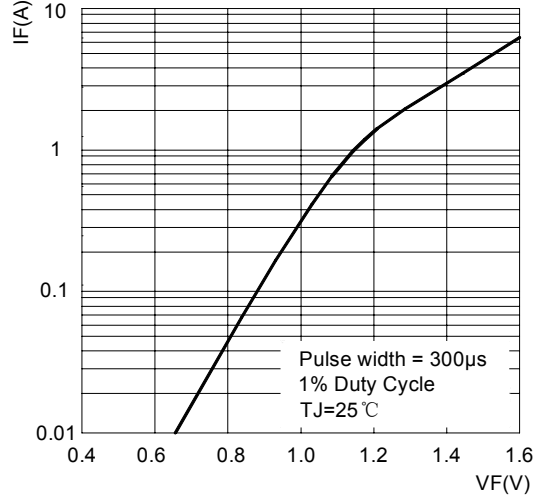


FIG5: Typical Reverse Characteristics

