



SMA4728A THRU SMA4764A

1W SURFACE MOUNT SILICON ZENER DIODE

V_z : 3.3 ~ 100 Volts

P_D : 1 Watt

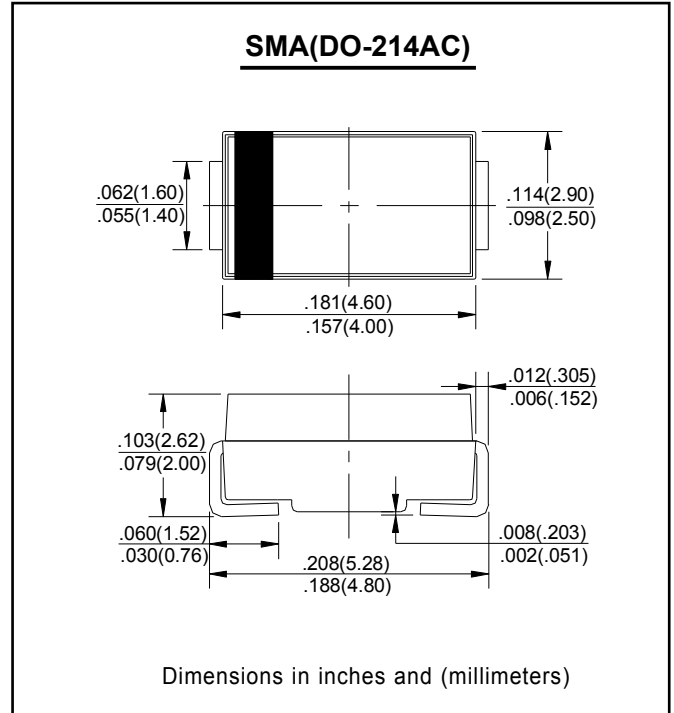
FEATURES :

- * Complete Voltage Range 3.3 to 100 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current



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 gram



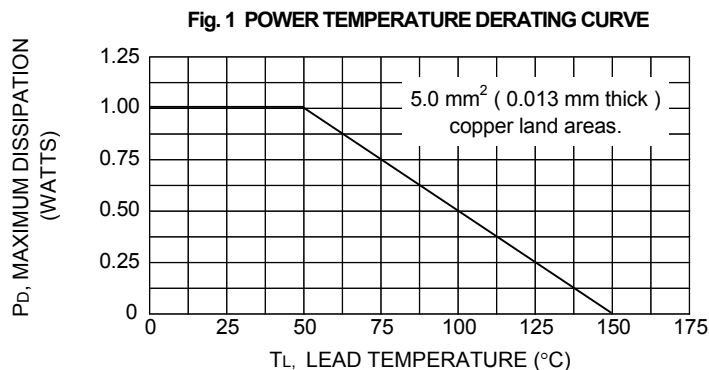
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 50 °C (Note1)	P _D	1.0	Watt
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	Volts
Junction Temperature Range	T _J	- 55 to + 150	°C
Storage Temperature Range	T _s	- 55 to + 150	°C

Note :

(1) T_L = Lead temperature at 5.0 mm² (0.013 mm thick) copper land areas.





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1W EPITAXIAL ZENER DIODE

Part Number	Nominal Zener voltage	Test current	Maximum dynamic impedance resistance			Maximum reverse leakage current		Max Surge current
	$V_Z^{(1)}$ at I_{ZT}	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}	IR	Test voltage V_R	$I_{RM}^{(2)}$
	V	mA	Ω	Ω	mA	μA	V	mA
SMA4728A	3.3	76	10	400	1	100	1	1380
SMA4729A	3.6	69	10	400	1	100	1	1260
SMA4730A	3.9	64	9	400	1	50	1	1190
SMA4731A	4.3	58	9	400	1	10	1	1070
SMA4732A	4.7	53	8	500	1	10	1	970
SMA4733A	5.1	49	7	550	1	10	1	890
SMA4734A	5.6	45	5	600	1	10	2	810
SMA4735A	6.2	41	2	700	1	10	3	730
SMA4736A	6.8	37	3.5	700	1	10	4	660
SMA4737A	7.5	34	4	700	0.5	10	5	605
SMA4738A	8.2	31	4.5	700	0.5	10	6	550
SMA4739A	9.1	28	5	700	0.5	10	7	500
SMA4740A	10	25	7	700	0.25	10	7.6	454
SMA4741A	11	23	8	700	0.25	5	8.4	414
SMA4742A	12	21	9	700	0.25	5	9.1	380
SMA4743A	13	19	10	700	0.25	5	9.9	344
SMA4744A	15	17	14	700	0.25	5	11.4	304
SMA4745A	16	15.5	16	700	0.25	5	12.2	285
SMA4746A	18	14	20	750	0.25	5	13.7	250
SMA4747A	20	12.5	22	750	0.25	5	15.2	225
SMA4748A	22	11.5	23	750	0.25	5	16.7	205
SMA4749A	24	10.5	25	750	0.25	5	18.2	190
SMA4750A	27	9.5	35	750	0.25	5	20.6	170
SMA4751A	30	8.5	40	1000	0.25	5	22.8	150
SMA4752A	33	7.5	45	1000	0.25	5	25.1	135
SMA4753A	36	7	50	1000	0.25	5	27.4	125
SMA4754A	39	6.5	60	1000	0.25	5	29.7	115
SMA4755A	43	6	70	1500	0.25	5	32.7	110
SMA4756A	47	5.5	80	1500	0.25	5	35.8	95
SMA4757A	51	5	95	1500	0.25	5	38.8	90
SMA4758A	56	4.5	110	2000	0.25	5	42.6	80
SMA4759A	62	4	125	2000	0.25	5	47.1	70
SMA4760A	68	3.7	150	2000	0.25	5	51.7	65
SMA4761A	75	3.3	175	2000	0.25	5	56	60
SMA4762A	82	3.0	200	3000	0.25	5	62.2	55
SMA4763A	91	2.8	250	3000	0.25	5	69.2	50
SMA4764A	100	2.5	350	3000	0.25	5	76.0	45

Notes :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.
- (2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method