

1SMA4728C-1SMA4764C

SURFACE MOUNT ZENER DIODES

V_Z : 3.3 - 100Volts

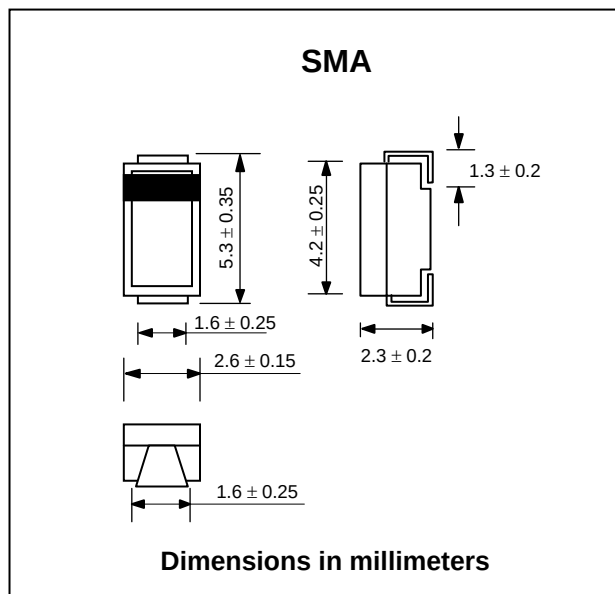
P_D : 1 Watt

FEATURES :

- * Complete voltage range 3.3 to 100 volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Standard zener voltage tolerance is $\pm 2\%$.
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.060 gram (Approximately)



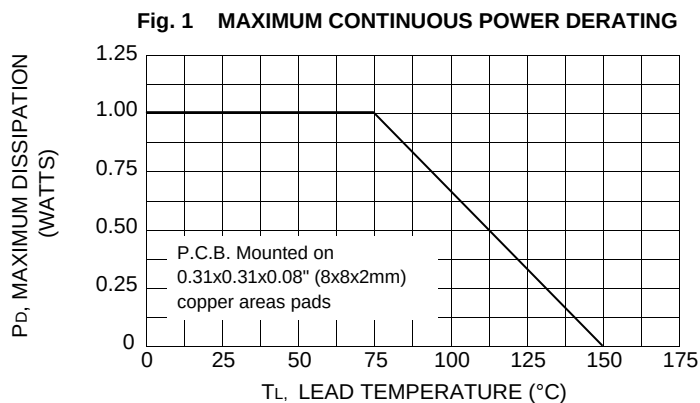
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 75 °C (Note1)	P _D	1.0	W
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	V
Junction Temperature Range	T _J	- 55 to + 150	°C
Storage Temperature Range	T _{STG}	- 55 to + 150	°C

Note :

- (1) P.C.B. Mounted on 0.31x0.31x0.08" (8x8x2mm) copper areas pads.



ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

Type	Device Marking	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
		$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$		I_{ZM}	$I_{RM}^{(2)}$
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μ A)	(V)	(mA)	(mApk)
1SMA4728C	728C	3.3	76.0	10	400	1.0	100	1.0	276	1380
1SMA4729C	729C	3.6	69.0	10	400	1.0	100	1.0	252	1260
1SMA4730C	730C	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
1SMA4731C	731C	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
1SMA4732C	732C	4.7	53.0	8.0	500	1.0	10	1.0	193	970
1SMA4733C	733C	5.1	49.0	7.0	550	1.0	10	1.0	178	890
1SMA4734C	734C	5.6	45.0	5.0	600	1.0	10	2.0	162	810
1SMA4735C	735C	6.2	41.0	2.0	700	1.0	10	3.0	146	730
1SMA4736C	736C	6.8	37.0	3.5	700	1.0	10	4.0	133	660
1SMA4737C	737C	7.5	34.0	4.0	700	0.5	10	5.0	121	605
1SMA4738C	738C	8.2	31.0	4.5	700	0.5	10	6.0	110	550
1SMA4739C	739C	9.1	28.0	5.0	700	0.5	10	7.0	100	500
1SMA4740C	740C	10	25.0	7.0	700	0.25	10	7.6	91	454
1SMA4741C	741C	11	23.0	8.0	700	0.25	5.0	8.4	83	414
1SMA4742C	742C	12	21.0	9.0	700	0.25	5.0	9.1	76	380
1SMA4743C	743C	13	19.0	10	700	0.25	5.0	9.9	69	344
1SMA4744C	744C	15	17.0	14	700	0.25	5.0	11.4	61	305
1SMA4745C	745C	16	15.5	16	700	0.25	5.0	12.2	57	285
1SMA4746C	746C	18	14.0	20	750	0.25	5.0	13.7	50	250
1SMA4747C	747C	20	12.5	22	750	0.25	5.0	15.2	45	225
1SMA4748C	748C	22	11.5	23	750	0.25	5.0	16.7	41	205
1SMA4749C	749C	24	10.5	25	750	0.25	5.0	18.2	38	190
1SMA4750C	750C	27	9.5	35	750	0.25	5.0	20.6	34	170
1SMA4751C	751C	30	8.5	40	1000	0.25	5.0	22.8	30	150
1SMA4752C	752C	33	7.5	45	1000	0.25	5.0	25.1	27	135
1SMA4753C	753C	36	7.0	50	1000	0.25	5.0	27.4	25	125
1SMA4754C	754C	39	6.5	60	1000	0.25	5.0	29.7	23	115
1SMA4755C	755C	43	6.0	70	1500	0.25	5.0	32.7	22	110
1SMA4757C	757C	51	5.0	95	1500	0.25	5.0	38.8	18	90
1SMA4758C	758C	56	4.5	110	2000	0.25	5.0	42.6	16	80
1SMA4759C	759C	62	4.0	125	2000	0.25	5.0	47.1	14	70
1SMA4760C	760C	68	3.7	150	2000	0.25	5.0	51.7	13	65
1SMA4761C	761C	75	3.3	175	2000	0.25	5.0	56.0	12	60
1SMA4762C	762C	82	3.0	200	3000	0.25	5.0	62.2	11	55
1SMA4763C	763C	91	2.8	250	3000	0.25	5.0	69.2	10	50
1SMA4764C	764C	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

Notes :

- The type number listed have a standard tolerance on the nominal zener voltage of $\pm 2\%$.
Suffix "A" indicates $\pm 5\%$ tolerance.
- 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