

FEATURES

- Total power dissipation: Max. 2 W.
- Wide zener reverse voltage range 3.3V to 330V.
- Small plastic package suitable for surface mounted design.

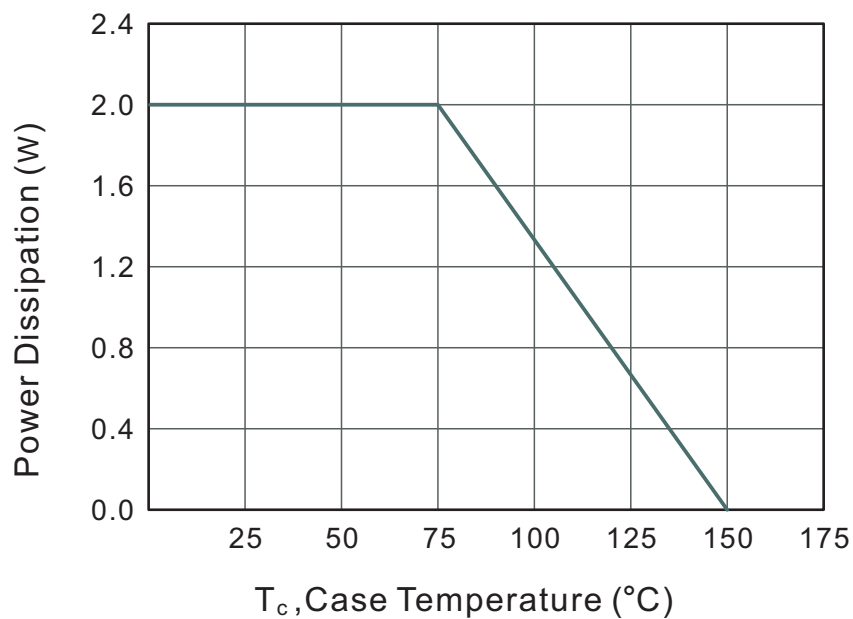
MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

Absolute Maximum Ratings And Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation at $T_c=75^\circ\text{C}$	P_D	2	W
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V
Junction Temperature Range	T_J	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$

Fig.1 Maximum Continuous Power Derating



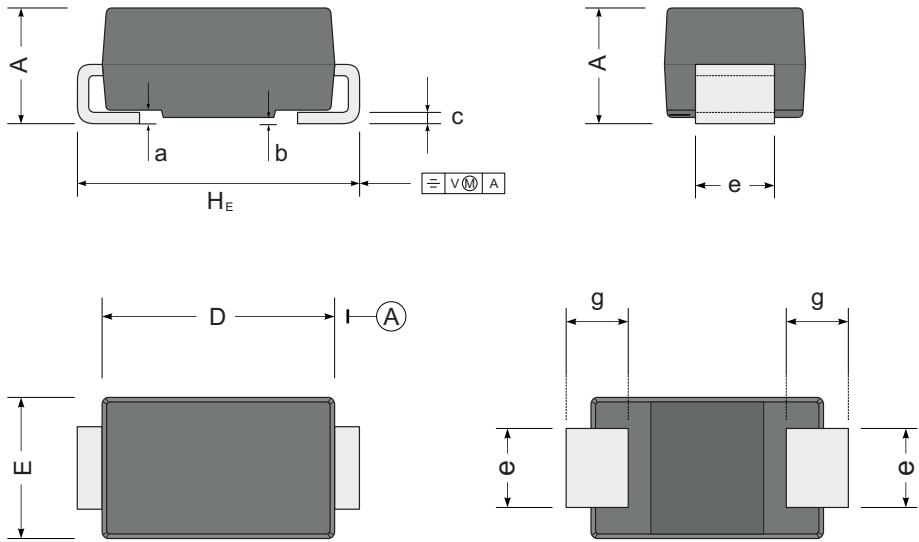
Characteristics at Ta = 25°C

Part Number	Marking Code	Zener Voltage Range (V)				Dynamic Impedance(Ω)			Reverse Current (μA)		Maximum DC Zener Current I _{ZM} (mA)
		Min.	Nom.	Max.	@ I _{ZT} (mA)	Z _{1T} Max.	Z _{1K} Max.	@ I _{ZK} (mA)	Max.	V _R (V)	
SMA2Z3.3A	2H2	3.13	3.3	3.47	145	8	400	1	80	1.0	548
SMA2Z3.6A	2H3	3.42	3.6	3.78	139	5	400	1	80	1.0	502
SMA2Z3.9A	2H4	3.7	3.9	4.1	128	5	400	1	30	1.0	464
SMA2Z4.3A	2H5	4.08	4.3	4.52	116	4.5	400	1	20	1.0	421
SMA2Z4.7A	2H6	4.46	4.7	4.94	106	4.5	550	1	5	1.0	385
SMA2Z5.1A	2H7	4.84	5.1	5.36	98	3.5	600	1	5	1.0	354
SMA2Z5.6A	2H8	5.32	5.6	5.88	89.5	2.5	500	1	5	2.0	323
SMA2Z6.2A	2A0	5.89	6.2	6.51	80.5	1.5	700	1	5	3.0	292
SMA2Z6.8A	2A1	6.46	6.8	7.14	73.5	2	700	1	5	4.0	266
SMA2Z7.5A	2A2	7.12	7.5	7.88	66.5	2	700	0.5	5	5.0	242
SMA2Z8.2A	2A3	7.79	8.2	8.61	61	2.3	700	0.5	5	6.0	220
SMA2Z9.1A	2A4	8.6	9.1	9.56	55	2.5	700	0.5	3	7.0	200
SMA2Z10A	2A5	9.5	10	10.5	50	3.5	700	0.25	3	7.6	182
SMA2Z11A	2A6	10.4	11	11.6	45.5	4	700	0.25	1	8.4	166
SMA2Z12A	2A7	11.4	12	12.6	41.5	4.5	700	0.25	1	9.1	152
SMA2Z13A	2A8	12.35	13	14.1	38.5	5	700	0.25	0.5	9.9	138
SMA2Z14A	2A9	13.3	14	14.7	35.7	5.5	700	0.25	0.5	10.6	130
SMA2Z15A	2B0	13.8	15	15.8	33.4	7	700	0.25	0.5	11.4	122
SMA2Z16A	2B1	15.2	16	16.8	31.2	8	700	0.25	0.5	12.2	114
SMA2Z17A	2B2	16.1	17	17.9	29.4	9	750	0.25	0.5	13.0	107
SMA2Z18A	2B3	16.8	18	19.2	27.8	10	750	0.25	0.5	13.7	100
SMA2Z19A	2B4	18.1	19	19.9	26.3	11	750	0.25	0.5	14.4	95
SMA2Z20A	2B5	19	20	21.2	25	11	750	0.25	0.5	15.2	90
SMA2Z22A	2B6	20.8	22	23.3	22.8	12	750	0.25	0.5	16.7	82
SMA2Z24A	2B7	22.8	24	25.2	20.8	13	750	0.25	0.5	18.2	76
SMA2Z27A	2B8	25.3	27	28.9	18.5	18	750	0.25	0.5	20.6	68
SMA2Z30A	2B9	28.2	30	32	16.6	20	1000	0.25	0.5	22.5	60
SMA2Z33A	2C0	31.3	33	34.9	15.1	23	1000	0.25	0.5	25.1	55
SMA2Z36A	2C1	34.2	36	37.9	13.9	25	1000	0.25	0.5	27.4	50
SMA2Z39A	2C2	37.2	39	41.5	12.8	30	1000	0.25	0.5	29.7	47
SMA2Z43A	2C3	40.9	43	45.6	11.6	35	1500	0.25	0.5	32.7	43
SMA2Z47A	2C4	44.9	47	49.8	10.6	40	1500	0.25	0.5	35.8	39
SMA2Z51A	2C5	48.6	51	54	9.8	48	1500	0.25	0.5	38.8	36
SMA2Z56A	2C6	53.6	56	58.8	9	55	2000	0.25	0.5	42.6	32
SMA2Z62A	2C7	58.9	62	65.6	8.1	60	2000	0.25	0.5	47.1	29
SMA2Z68A	2C8	64.6	68	71.7	7.4	75	2000	0.25	0.5	51.7	27
SMA2Z75A	2C9	71.2	75	78.8	6.7	90	2000	0.25	0.5	56.0	24
SMA2Z82A	2F0	77.9	82	87	6	100	3000	0.25	0.5	62.2	22
SMA2Z91A	2F1	86	91	96	5.5	125	3000	0.25	0.5	69.2	20
SMA2Z100A	2F2	95	100	105	5	175	3000	0.25	0.5	76.0	18
SMA2Z110A	2F3	104	110	116	4.5	250	4000	0.25	0.5	83.6	17
SMA2Z120A	2F4	114	120	127	4.2	325	4500	0.25	0.5	91.2	15
SMA2Z130A	2F5	123	130	137	3.8	400	5000	0.25	0.5	98.8	14
SMA2Z140A	2F6	133	140	147	3.6	500	5500	0.25	0.5	106.4	13
SMA2Z150A	2F7	142	150	157	3.3	575	6000	0.25	0.5	114	12
SMA2Z160A	2F8	152	160	168	3.1	650	6500	0.25	0.5	121.6	11
SMA2Z170A	2F9	161	170	178	2.9	675	7000	0.25	0.5	130.4	11
SMA2Z180A	2G1	170	180	191	2.8	725	7000	0.25	0.5	136	10
SMA2Z190A	2G2	181	190	199	2.6	825	8000	0.25	0.5	144.8	10
SMA2Z200A	2G3	189	200	211	2.5	1900	9990	0.25	0.5	152	9
SMA2Z220A	2G4	209	220	231	2	2000	8500	0.25	0.5	167	8
SMA2Z270A	2G5	256	270	283	1.6	2200	8500	0.25	0.5	205	6.7
SMA2Z300A	2G6	289	300	315	1.5	2200	9000	0.25	0.5	228	5.9
SMA2Z330A	2G7	313	330	346	1.4	2300	9000	0.25	0.5	250	5.4

(1) V_{ZT} is tested with pulses (20 ms)

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



UNIT		A	D	E	H _E	c	e	g	b	a
mm	max	2.4	4.5	2.7	5.2	0.31	1.6	1.5	0.2	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.05	
mil	max	95	181	106	205	12	63	59	7.9	12
	min	75	157	91	185	6	51	35	2	

The recommended mounting pad size

