



Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SMA2EZ3.3-SMA2EZ100	SMA (DO-214AC)	XX	3000

XX=Device code, see table on page2 the marking code.

The marking bar indicates the cathode.



SMA
(DO-214AC)



Absolute Maximum Ratings(Ta=25°C)

Characteristic	Symbol	Value	Unit
Forward voltage @I _F =200mA	V _F	1.2	V
Power Dissipation	P _D	2	W
Thermal Resistance, Junction to Ambient Air	R _{θJA}	556	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

Notes: Device mounted on ceramic PCB;5.0mm×7.0mm with pad areas 35 mm²



Electrical Characteristics (Ta=25℃ unless otherwise specified)

Part Number	Marking Code	Zener Vol Tage Range	Test Current		Reverse Current		Dynamic Resistance		Surge Current (1)
		V _Z at I _{ZT1}	I _{ZT1}	I _{ZT2}	I _R at V _R		Z _Z at I _{ZT1}	Z _{ZK} at I _{ZT2}	I _{RM}
		V	mA		μA	V	Ω		mA _{pk}
		NOM.			MAX.		MAX.	MAX.	MAX.
SMA2EZ3.3D5	3P3	3.3	76	1	100	1	10	400	1380
SMA2EZ3.6D5	3P6	3.6	69	1	100	1	10	400	1260
SMA2EZ3.9D5	3P9	3.9	64	1	50	1	9	400	1190
SMA2EZ4.3D5	4P3	4.3	58	1	10	1	9	400	1070
SMA2EZ4.7D5	4P7	4.7	53	1	10	1	8	500	970
SMA2EZ5.1D5	5P1	5.1	49	1	10	1	7	550	890
SMA2EZ5.6D5	5P6	5.6	45	1	10	2	5	600	810
SMA2EZ6.2D5	6P2	6.2	41	1	10	3	2	700	730
SMA2EZ6.8D5	6P8	6.8	37	1	10	4	3.5	700	660
SMA2EZ7.5D5	7P5	7.5	34	0.5	10	5	4	700	605
SMA2EZ8.2D5	8P2	8.2	31	0.5	10	6	4.5	700	550
SMA2EZ9.1D5	9P1	9.1	28	0.5	10	7	5	700	500
SMA2EZ10D5	10	10	25	0.25	10	7.6	7	700	454
SMA2EZ11D5	11	11	23	0.25	5	8.4	8	700	414
SMA2EZ12D5	12	12	21	0.25	5	9.1	9	700	380
SMA2EZ13D5	13	13	19	0.25	5	9.9	10	700	344
SMA2EZ15D5	15	15	17	0.25	5	11.4	14	700	305
SMA2EZ16D5	16	16	15.5	0.25	5	12.2	16	700	285
SMA2EZ18D5	18	18	14	0.25	5	13.7	20	750	250
SMA2EZ20D5	20	20	12.5	0.25	5	15.2	22	750	225
SMA2EZ22D5	22	22	11.5	0.25	5	16.7	23	750	205
SMA2EZ24D5	24	24	10.5	0.25	5	18.2	25	750	190
SMA2EZ27D5	27	27	9.5	0.25	5	20.6	35	750	170
SMA2EZ30D5	30	30	8.5	0.25	5	22.8	40	1000	150
SMA2EZ33D5	33	33	7.5	0.25	5	25.1	45	1000	135
SMA2EZ36D5	36	36	7	0.25	5	27.4	50	1000	125
SMA2EZ39D5	39	39	6.5	0.25	5	29.7	60	1000	115
SMA2EZ43D5	43	43	6	0.25	5	32.7	70	1500	110
SMA2EZ47D5	47	47	5.5	0.25	5	35.8	80	1500	95
SMA2EZ51D5	51	51	5	0.25	5	38.8	95	1500	90
SMA2EZ56D5	56	56	4.5	0.25	5	42.6	110	2000	80
SMA2EZ62D5	62	62	4	0.25	5	47.1	125	2000	70
SMA2EZ68D5	68	68	3.7	0.25	5	51.7	150	2000	65
SMA2EZ75D5	75	75	3.3	0.25	5	56	175	2000	60
SMA2EZ82D5	82	82	3	0.25	5	62.2	200	3000	55
SMA2EZ91D5	91	91	2.8	0.25	5	69.2	250	3000	50
SMA2EZ100D5	100	100	2.5	0.25	5	76	350	3000	45

Note

(1) Surge current is a non-repetitive, 8.3 ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC® method



Typical Characteristics

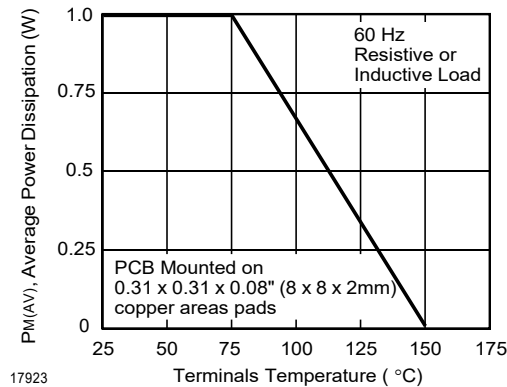


Fig. 1 - Maximum Continuous Power Dissipation

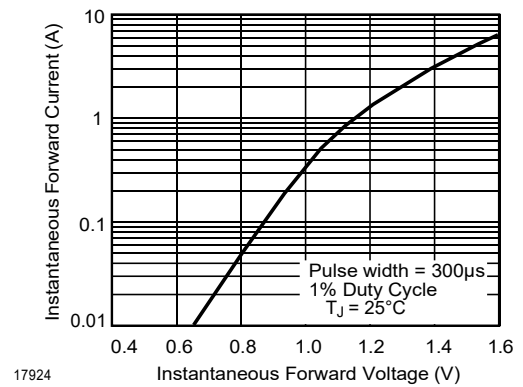


Fig. 4 - Typical Instantaneous Forward Characteristics for SMA2EZ4763

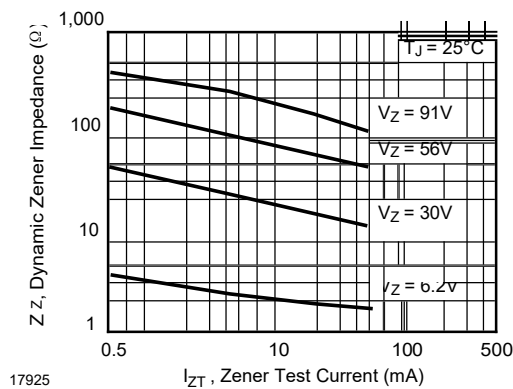


Fig. 2 - Typical Zener Impedance

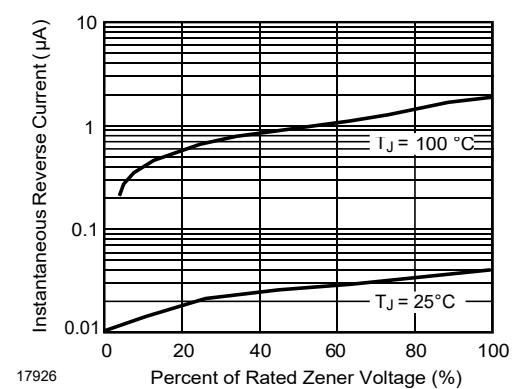


Fig. 5 - Typical Reverse Characteristics

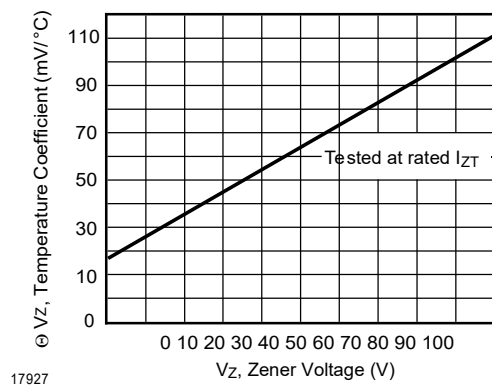
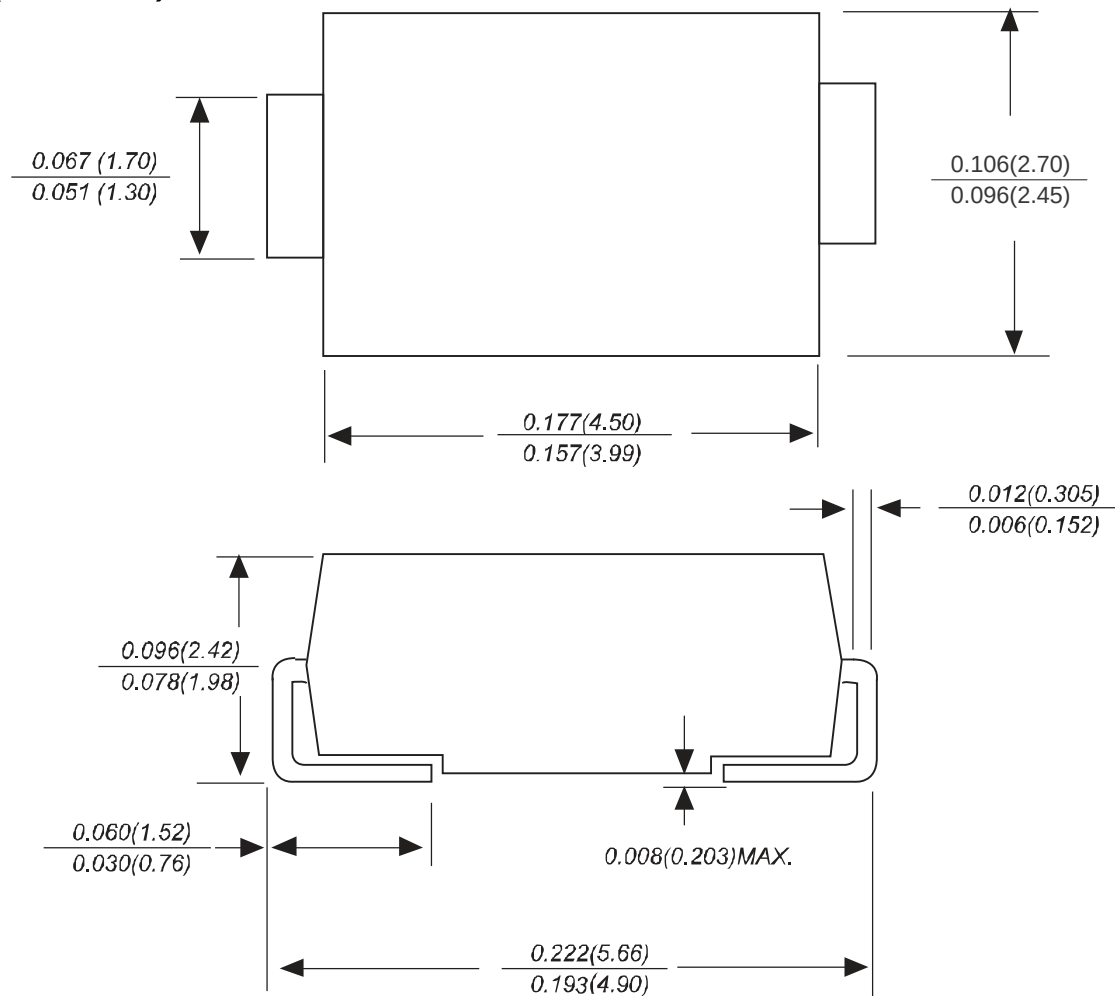


Fig. 3 - Typical Temperature Coefficients



Package Outline Dimensions

SMA(DO-214AC)



Dimensions in inches and (millimeters)



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