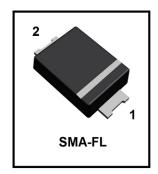


SZAF ***A Series

Zener voltage regulator diodes 1 Watt Steady State

Feature

- *1W SMA-FL
- * Zener voltage regulator diodes
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- * We declare that the material of product compliance with RoHS requirements.
- * Guarding for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals
- * IEC61000-4-2 ESD Air Contact ≥±15KV
- * MSL: 1
- * We declare that the material of product compliance with RoHS requirements and Halogen Free.





Mechanical Data

Case: JEDEC SMA-FL molded plastic

Terminals: Plated terminals, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denoted cathode except Bipolar

Mounting Position: Any

Weight: 28mg

1.Electrical Characteristic

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNITS
Steady State Power Dissipation at T _A =50°C(Note1)	$P_{M(AV)}$	1	Watts
Z-current Z-current	IZ	PV/VZ	mA
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +150	°C

NOTES:

1. 8.0mm2 (.013mm thick) land areas



SZAF ***A Series

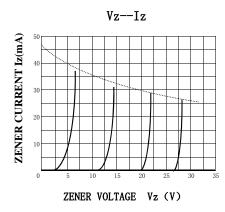
2.Product Characteristic

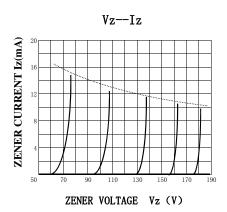
	Device	Zener	Current	A and B Sufflx only		Leakage Current		Maximum Regulator Current2)	
Туре	marking code	Voltage	I zt	Z zt @ I zt	Z zk@ Izk		I _R	V _R	IZM @ Tamb =50 ° C
		Vz@Lzt					R	K	
		Volts	mA	Ohms	Ohms	m A	uA Max	Volts	mA
SZAF2.4A	Z2.4	2.4	102	30	1200	1		1.0	378
SZAF2.5A	Z2.5	2.5	98	30	1250	1	1.0 1.0		362
SZAF2.7A	Z2.7	2.7	90	30	1300	1			334
SZAF2.8A	Z2.8	2.8	87	30	1400	1	1.0 1.0 1.0 1.0	324	
SZAF3.0A	Z3.0	3.0	82	29	1600	1		302	
SZAF3.3A	Z3.3	3.3	76	28	400	1		276	
SZAF3.6A SZAF3.9A	Z3.6 Z3.9	3.6	69 64	24 23	400 400	1	100	1.0	252 238
SZAF3.9A SZAF4.3A	Z4.3	4.3	58	22	400	1		1.0	238
SZAF4.7A	Z4.7	4.7	53	19	400	1		1.0	194
SZAF5.1A	Z5.1	5.1	49	7	550	1	•	1.0	178
	Z5.6		i e						
SZAF5.6A		5.6	45	5	600	1		2.0	164
SZAF6.2A	Z6.2	6.2	41	2	700			3.0	146
SZAF6.8A	Z6.8	6.8	37	4	1300			4	133
SZAF7.5A	Z7.5	7.5	34	4.5	1300	0.5	70	5	121
SZAF8.2A	Z8.2	8.2	31	5.5	1300	0.5	70	7	110
SZAF9.1A	Z9.1	9.1	28	6	1300	0.5			100
SZAF11A	Z10	10	25	7	1300			7.6	91
SZAF11A SZAF12A	Z11 Z12	11 12	23 21	8 9	1300 1300		2	8.4 9.1	83 76
SZAF12A SZAF13A	Z12 Z13	13	19	10	1300			9.1	69
SZAF15A	Z15	15	17	14	1300			11.4	61
SZAF16A	Z16	16	15.5	16	1300			12.2	57
SZAF18A	Z18	18	14	20	1300			13.7	50
SZAF20A	Z20	20	12.5	22	1300			15.2	45
SZAF22A	Z22	22	11.5	23	1300			16.7	41
SZAF24A	Z24	24	10.5	25	1300			18.2	38
SZAF27A	Z27	27	9.5	35	1300			20.6	34
SZAF30A	Z30	30	8.5	40	1500			22.8	30
SZAF33A	Z33	33	7.5	45	1500			25.1	27
SZAF36A	Z36	36	7	50	1500			27.4	25
SZAF39A	Z39	39	6.5	60	1500			29.7	23
SZAF43A	Z43	43	6	70	2500	1		32.7	22
SZAF47A	Z47	47	5.5	80	2500	0.25		35.8	19
SZAF51A	Z51	51	5	95	2500	0.23	0.5	38.8	18
SZAF56A	Z56	56	4.5	110	2500			42.6	16
SZAF62A	Z62	62	4	125	2500	1		47.1	14
SZAF68A	Z68	68	3.7	150	2500]		51.7	13
SZAF75A	Z75	75	3.3	175	2500]		56	12
SZAF82A	Z82	82	3	200	3000			62.2	11
SZAF91A	Z91	91	2.8	250	3000			69.2	10
SZAF100A	Z100	100	2.5	350	3000			76	9
SZAF110A	Z110	110	2	550	5000		83	8	
SZAF120A	Z120	120	1.5	750	5500			90	7
SZAF130A	Z130	130	1	900	6000		98 113	6	
SZAF150A	Z150	150	1	1200	6500			6	
SZAF160A	Z160	160	1	1350	7000			120	6
SZAF180A	Z180	180	1	1650	8500		135		5
SZAF200A	Z200	200	1	1950	10000			150	4
SZAF220A	Z220	220	1	2300	12000			165	4

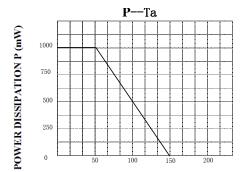


SZAF ***A Series

3. Characteristic Curves





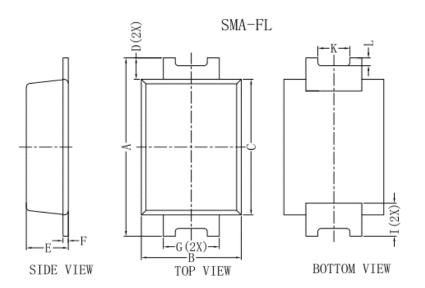


AMBIENT TEMPERATURE Ta (℃)

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4.OUTLINE AND DIMENSIONS

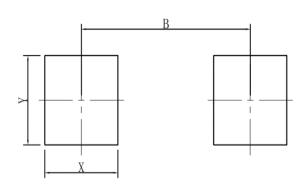


SMA-FL				
DIM	MIN	MAX	Тур.	
Α	4.40	4.80	4.60	
В	2.30	2.70	2.60	
С	3.30	3.70	3.50	
D	-	-	0.55	
Е	0.90	1.20	1.05	
F	0.11	0.21	0.17	
G	1.30	1.50	1.40	
ı	-	-	0.90	
K	-	-	0.80	
Ĺ	-	-	0.20	
All Dimensions in mm				

GENERAL NOTES

- 1.Top package surface finish Ra0.4±0.2um
- 2.Bottom package surface finish Ra0.7±0.2um

5.SOLDERING FOOTPRINT



SMA-FL		
DIM (mm)		
Χ	1.60	
Υ	1.80	
В	3.70	

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