

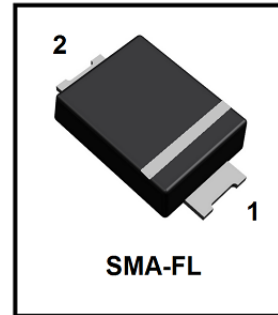
S-SZAF ***A Series

Zener voltage regulator diodes

1 Watt Steady State

Feature

- * 1 W 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 $\geq \pm 15KV$
- * MSL: 1
- * We declare that the material of product compliance with RoHS requirements and Halogen Free.
- * S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.



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 : Approximated 0.0327 gram

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 $T_A = 50^\circ C$ (Note1)	$P_{M(AV)}$	1	Watts
Z-current	I _Z	PV/V _Z	mA
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +150	°C

NOTES:

1. 8.0mm² (.013mm thick) land areas

S-SZAF ***A Series

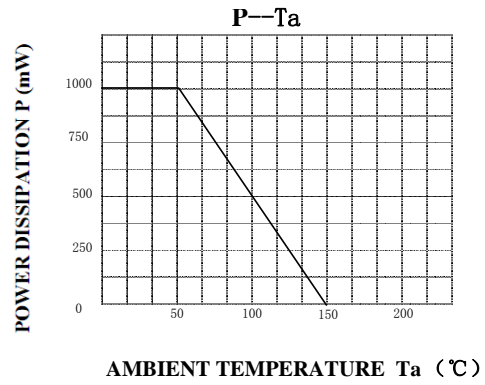
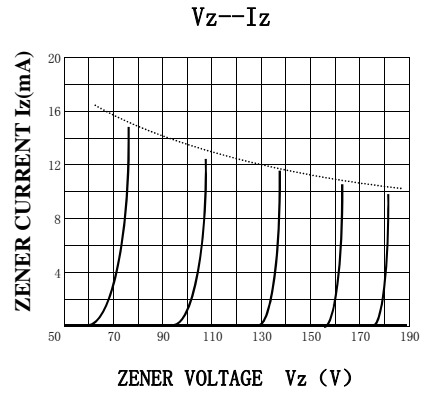
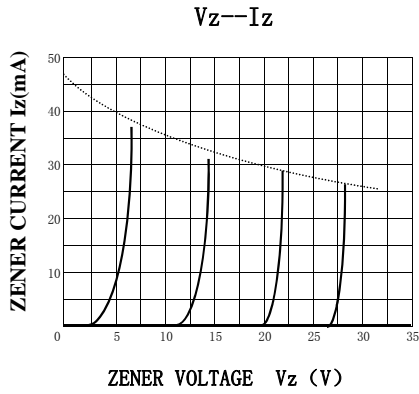
2.Product Characteristic

Vz tolerance : ±5%; Ta=25°C Vfmax =1.2V @ IF = 200mA P=1 W

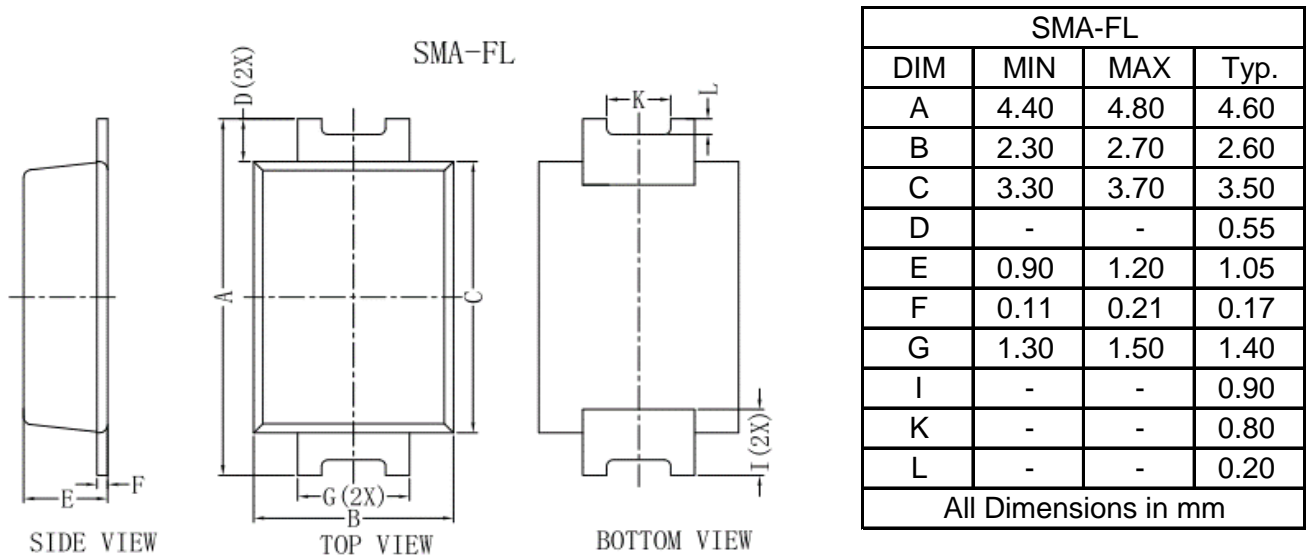
Type	Device marking code	Zener	Current	A and B Sufflx only			Leakage Current		Maximum Regulator Current2)
		Voltage	I zt	Z zt @ I zt	Z zk@ Izk	Z zk@ Izk	I _R	V _R	I _{ZM} @ Tamb =50 ° C
		Vz@Lzt							
		Volts	mA	Ohms	Ohms	m A	uA Max	Volts	mA
S-SZAF2.4A	Z2.4	2.4	102	30	1200	1	100	1.0	252
S-SZAF2.5A	Z2.5	2.5	98	30	1250	1		1.0	241
S-SZAF2.7A	Z2.7	2.7	90	30	1300	1		1.0	222
S-SZAF2.8A	Z2.8	2.8	87	30	1400	1		1.0	216
S-SZAF3.0A	Z3.0	3.0	82	29	1600	1		1.0	201
S-SZAF3.3A	Z3.3	3.3	76	28	400	1		1.0	184
S-SZAF3.6A	Z3.6	3.6	69	24	400	1		1.0	168
S-SZAF3.9A	Z3.9	3.9	64	23	400	1		1.0	158
S-SZAF4.3A	Z4.3	4.3	58	22	400	1		1.0	142
S-SZAF4.7A	Z4.7	4.7	53	19	400	1		1.0	129
S-SZAF5.1A	Z5.1	5.1	49	7	550	1		1.0	118
S-SZAF5.6A	Z5.6	5.6	45	5	600			2.0	109
S-SZAF6.2A	Z6.2	6.2	41	2	700			3.0	97
S-SZAF6.8A	Z6.8	6.8	37	4	1300			4	133.3
S-SZAF7.5A	Z7.5	7.5	34	4.5	1300			0.5	5
S-SZAF8.2A	Z8.2	8.2	31	5.5	1300	0.5		6	110
S-SZAF9.1A	Z9.1	9.1	28	6	1300	0.5		7	100
S-SZAF10A	Z10	10	25	7	1300	0.25	7.6	91.3	
S-SZAF11A	Z11	11	23	8	1300		8.4	83.3	
S-SZAF12A	Z12	12	21	9	1300		9.1	76	
S-SZAF13A	Z13	13	19	10	1300		9.9	69.3	
S-SZAF15A	Z15	15	17	14	1300		11.4	61.3	
S-SZAF16A	Z16	16	15.5	16	1300		12.2	57.3	
S-SZAF18A	Z18	18	14	20	1300		13.7	50	
S-SZAF20A	Z20	20	12.5	22	1300		15.2	45.3	
S-SZAF22A	Z22	22	11.5	23	1300		16.7	41.3	
S-SZAF24A	Z24	24	10.5	25	1300		18.2	38	
S-SZAF27A	Z27	27	9.5	35	1300		20.6	34	
S-SZAF30A	Z30	30	8.5	40	1500		22.8	30	
S-SZAF33A	Z33	33	7.5	45	1500		25.1	27.3	
S-SZAF36A	Z36	36	7	50	1500		27.4	25.3	
S-SZAF39A	Z39	39	6.5	60	1500		29.7	23.3	
S-SZAF43A	Z43	43	6	70	2500		32.7	22	
S-SZAF47A	Z47	47	5.5	80	2500		35.8	19.3	
S-SZAF51A	Z51	51	5	95	2500	38.8	18		
S-SZAF56A	Z56	56	4.5	110	2500	42.6	16		
S-SZAF62A	Z62	62	4	125	2500	47.1	14		
S-SZAF68A	Z68	68	3.7	150	2500	51.7	13.3		
S-SZAF75A	Z75	75	3.3	175	2500	56	12		
S-SZAF82A	Z82	82	3	200	3000	62.2	11.3		
S-SZAF91A	Z91	91	2.8	250	3000	69.2	10		
S-SZAF100A	Z100	100	2.5	350	3000	76	9.3		
S-SZAF110A	Z110	110	2	550	5000	83	8		
S-SZAF120A	Z120	120	1.5	750	5500	90	7.3		
S-SZAF130A	Z130	130	1	900	6000	98	6		
S-SZAF150A	Z150	150	1	1200	6500	113	6		
S-SZAF160A	Z160	160	1	1350	7000	120	6		
S-SZAF180A	Z180	180	1	1650	8500	135	5.3		
S-SZAF200A	Z200	200	1	1950	10000	150	4		
S-SZAF220A	Z220	220	1	2300	12000	165	4		

S-SZAF ***A Series

3.Characteristic Curves



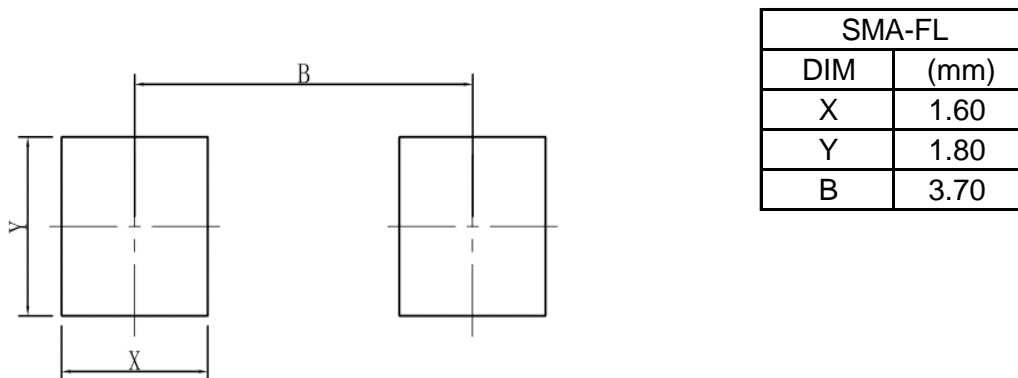
4. OUTLINE AND DIMENSIONS



GENERAL NOTES

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

5. SOLDERING FOOTPRINT



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Zener Diodes](#) category:

Click to view products by [Leshan](#) manufacturer:

Other Similar products are found below :

[MMSZ5245BS-7-F](#) [RKZ13B2KG#P1](#) [RKZ5.6B2KJ#R1](#) [EDZTE6113B](#) [EDZTE6116B](#) [EDZTE616.8B](#) [1N747A](#) [1N966B](#) [NTE5116A](#)
[NTE5121A](#) [NTE5139A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#) [NTE5156A](#) [NTE5164A](#) [JANS1N4974US](#) [SMAJ4764A-TP](#) [RKZ5.1BKU#P6](#)
[3SMAJ5946B-TP](#) [3SMAJ5950B-TP](#) [3SMBJ5920B-TP](#) [3SMBJ5925B-TP](#) [TDZTR24](#) [441774C](#) [MMSZ4678-TP](#) [MMSZ5232BQ-13-F](#)
[BZG04-36](#) [BZG05C9V1-HE3-TR](#) [HZM30NBTR-E](#) [UDZTE-175.1B](#) [3SMAJ5945B-TP](#) [3SMAJ5947B-TP](#) [3SMBJ5941B-TP](#) [DL4746A-TP](#)
[RKZ18B2KK#R1](#) [RKZ10B2KL#R1](#) [RKZ6.8B2KL#R1](#) [RKZ8.2B2KL#R1](#) [DZ2S240M0L](#) [SMAZ27-TP](#) [SMBZ5920B-E3/52](#) [ZMM3.0](#)
[RD16UM-T1-A](#) [RD39S-T1-A](#) [RD9.1S-T1-A](#) [RD10S-T1-A](#) [RD20S-T1-A](#) [RD2.2S-T1-A](#) [RD2.7UM-T1-A](#)