

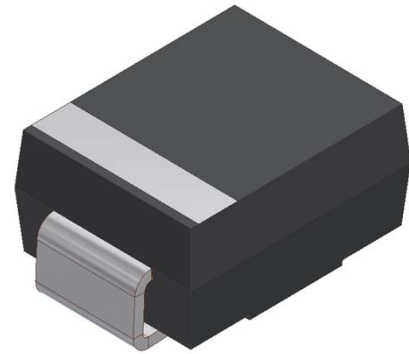
SZB***A Series

Zener Voltage Regulator Diodes

2.0 Watt Steady State

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- IEC61000-4-2 ESD Air Contact $\geq \pm 15\text{KV}$
- High temperature soldering guaranteed:
260°C/10 seconds,
- Weight: 0.088g



2. MECHANICAL DATA

Case: Epoxy, Molded

Terminals: Plated leads, solderable per
MIL-STD-202, Method 208

Polarity: With Color band denoted cathode

Mounting Position: Any

3. MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

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 $T_A = 50^\circ\text{C}$ (Note1)	PM(AV)	2	Watts
Z-current	I _Z	P _V /V _Z	mA
Storage Temperature Range	T _J , T _{STG}	-50 to +150	°C

NOTES:

1. Mounted on Copper Leaf area of 1.57in²(40mm²).
2. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.

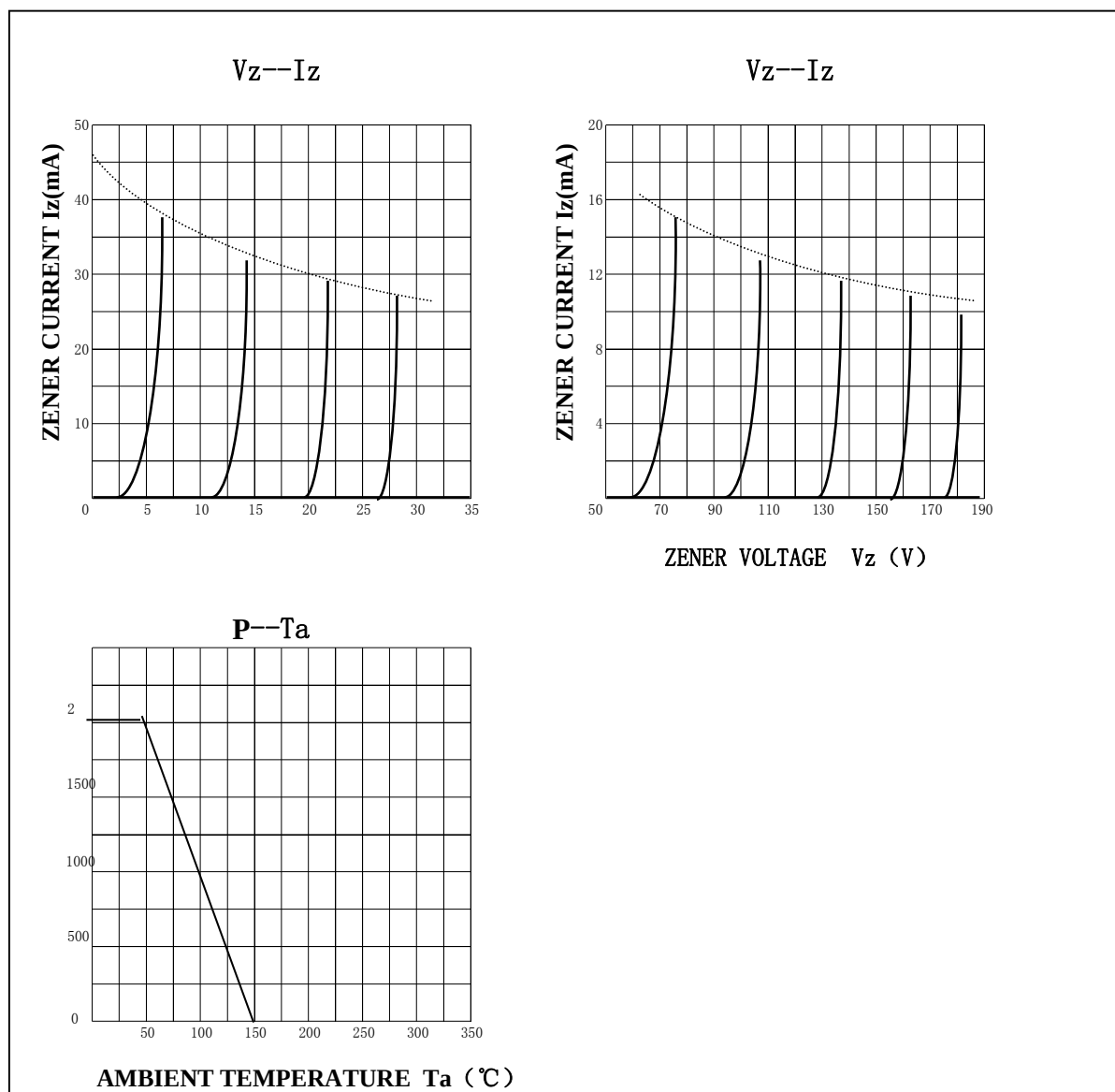
SZB*** A Series

4.Product Characteristic

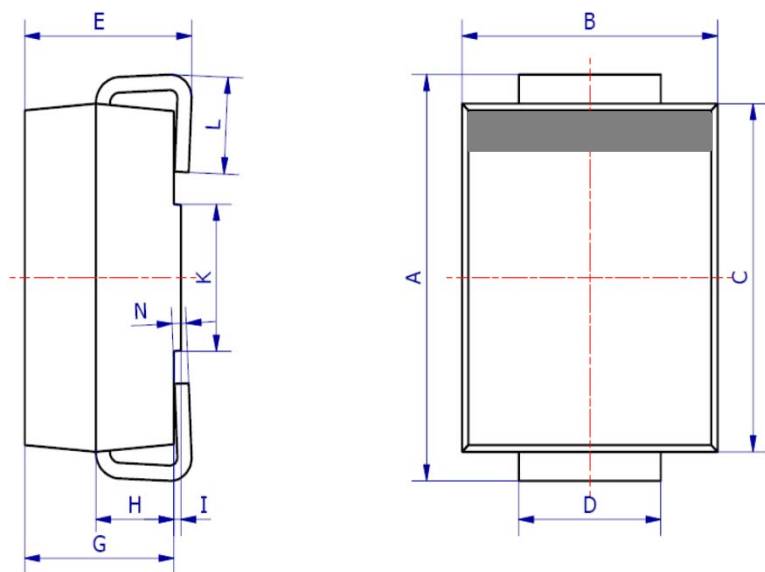
Vz tolerance : $\pm 5\%$; Ta=25°C Vfmax =1.2V @ IF = 200mA P=2 W; Tested with pulse tp=40ms

Type	Device marking code	Zener Voltage		Zener Impedance			Leakage Current		IZM
		Vz@Izt	Izt	Zzt @ Izt	Zzk@ Izk		IR	VR	
		Volts	mA	Ohms	Ohms	m A	uA Max	Volts	mA
SZB5.1A	SZB5.1A	5.1	98	7	550	1	100	1	392
SZB5.6A	SZB5.6A	5.6	89	5	600			2	357
SZB6.2A	SZB6.2A	6.2	81	2	700			3	323
SZB6.8A	SZB6.8A	6.8	74	4	1300			4	294
SZB7.5A	SZB7.5A	7.5	67	4.5	1300	0.5		5	267
SZB8.2A	SZB8.2A	8.2	61	5.5	1300	0.5		6	244
SZB9.1A	SZB9.1A	9.1	55	6	1300	0.5		7	220
SZB10A	SZB10A	10	50	7	1300	0.25	20	7.6	200
SZB11A	SZB11A	11	45	8	1300			8.4	182
SZB12A	SZB12A	12	42	9	1300			9.1	167
SZB13A	SZB13A	13	38	10	1300			9.9	154
SZB15A	SZB15A	15	33	14	1300			11.4	133
SZB16A	SZB16A	16	31	16	1300			12.2	125
SZB18A	SZB18A	18	28	20	1300			13.7	111
SZB20A	SZB20A	20	25	22	1300			15.2	100
SZB22A	SZB22A	22	23	23	1300			16.7	91
SZB24A	SZB24A	24	21	25	1300			18.2	83
SZB27A	SZB27A	27	19	35	1300			20.6	74
SZB30A	SZB30A	30	17	40	1500			22.8	67
SZB33A	SZB33A	33	15	45	1500		5	25.1	61
SZB36A	SZB36A	36	14	50	1500			27.4	56
SZB39A	SZB39A	39	13	60	1500			29.7	51
SZB43A	SZB43A	43	12	70	2500			32.7	47
SZB47A	SZB47A	47	11	80	2500			35.8	43
SZB51A	SZB51A	51	10	95	2500			38.8	39
SZB56A	SZB56A	56	9	110	2500			42.6	36
SZB62A	SZB62A	62	8	125	2500			47.1	32
SZB68A	SZB68A	68	7	150	2500			51.7	29
SZB75A	SZB75A	75	7	175	2500			56	27
SZB82A	SZB82A	82	6	200	3000			62.2	24
SZB91A	SZB91A	91	5	250	3000			69.2	22
SZB100A	SZB100A	100	5	350	3000			76	20
SZB110A	SZB110A	110	5	550	5000			83	18
SZB120A	SZB120A	120	4	750	5500			90	17
SZB130A	SZB130A	130	4	900	6000			98	15
SZB150A	SZB150A	150	3	1200	6500			113	13
SZB160A	SZB160A	160	3	1350	7000			120	13
SZB180A	SZB180A	180	3	1650	8500			135	11
SZB200A	SZB200A	200	3	1950	10000			150	10

5. ELECTRICAL CHARACTERISTICS CURVES

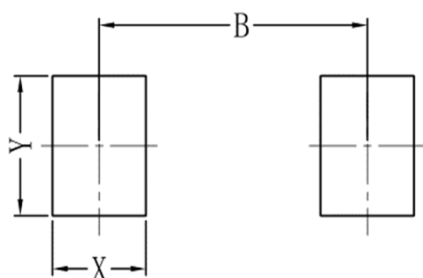


6.OUTLINE AND DIMENSIONS



SMB			
DIM	Min	Max	Typ.
A	5.00	5.45	5.25
B	3.30	3.90	3.60
C	4.30	4.70	4.50
D	1.80	2.20	2.00
E	2.20	2.50	2.35
G	1.90	2.30	2.10
H	0.95	1.25	1.10
I	0.05	0.15	0.10
K	1.70	2.10	1.90
L	0.90	1.60	1.30
N	0.10	0.30	0.20
All Dimensions in mm			

7.SOLDERING FOOTPRINT



SMB	
DIM	(mm)
X	1.60
Y	2.20
B	4.60