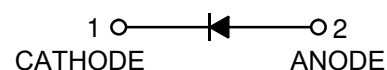
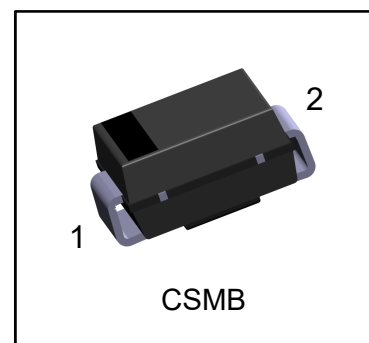


S-CSZB***A Series

Zener Voltage Regulator Diodes

1. FEATURES

- We declare that the material of product complies 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.
- 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 $\geq \pm 15KV$
- High temperature soldering guaranteed: 260°C/10 seconds,
- Weight: 0.11g



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(Ta = 25°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°C(Note1)	PM(AV)	2	Watts
Z-current	IZ	PV/VZ	mA
Thermal Resistance - Junction to Ambient(Note 3)	RθJA	150	°C/W
Thermal Resistance - Junction to Case(Note 4)	RθJC	30	°C/W
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 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.
3. Thermal resistance test board size: 30.0mm×25.0mm×1.6mm (FR4); Copper foil: 35um; Standard soldering pad.
4. RθJC test point is at the center of the upper surface of the plastic encapsulation.

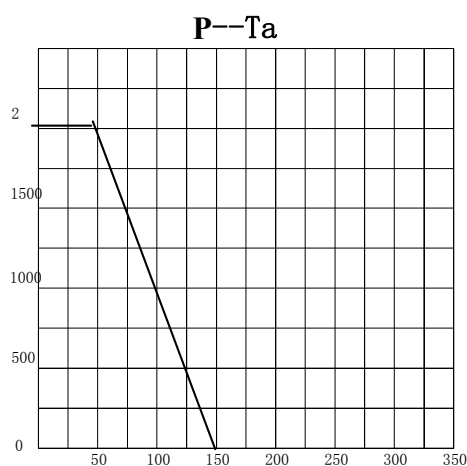
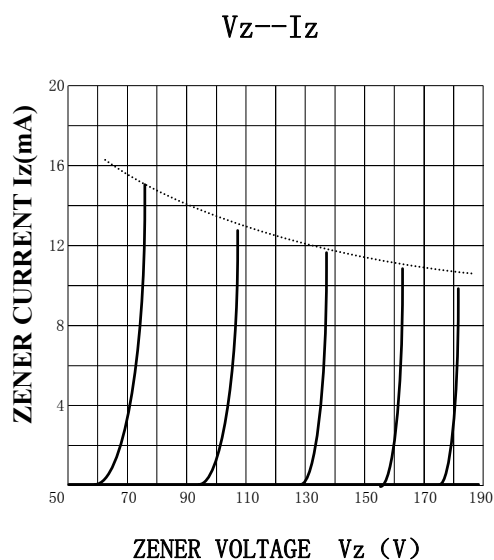
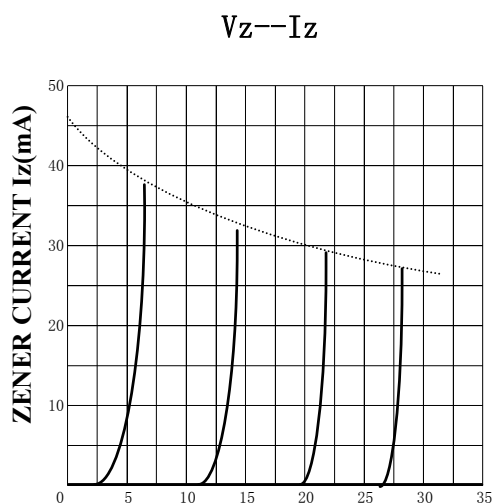
S-CSZB***A Series

4. Product Characteristic

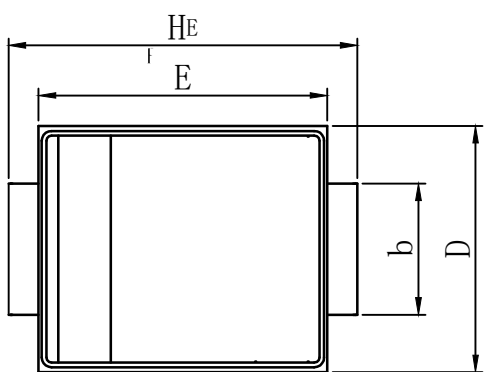
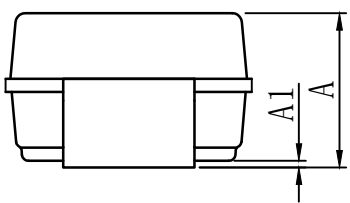
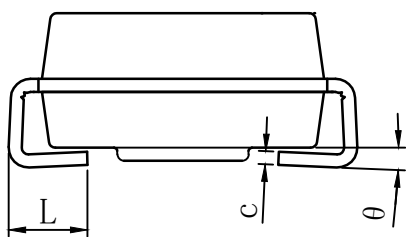
Vz tolerance : $\pm 5\%$; Ta=25°C V_{fmax} =1.2V @ IF = 200mA P=2 W; Tested with pulese tp=40ms

Part Number	Device Marking Code	Zener Voltage		Zener Impedance			Leakage Current		I _{ZM}
		V _z @I _{zt}	I _{zt}	Z _{zt} @ I _{zt}	Z _{zk} @ I _{zk}		I _R	V _R	
		Volts	mA	Ohms	Ohms	mA	uA Max	Volts	mA
S-CSZB3.3A	SZB3.3A	3.3	227	5	500	1	100	1	555
S-CSZB3.6A	SZB3.6A	3.6	208	5	500			1	533
S-CSZB3.9A	SZB3.9A	3.9	192	4.5	400			1	512
S-CSZB4.3A	SZB4.3A	4.3	174	4.5	400			1	465
S-CSZB4.7A	SZB4.7A	4.7	160	4.0	500			1	431
S-CSZB5.1A	SZB5.1A	5.1	147	3.5	550			1	392
S-CSZB5.6A	SZB5.6A	5.6	134	2.5	600			2	357
S-CSZB6.2A	SZB6.2A	6.2	121	2	700			3	323
S-CSZB6.8A	SZB6.8A	6.8	74	4	1300			4	294
S-CSZB7.5A	SZB7.5A	7.5	67	4.5	1300	0.5		5	267
S-CSZB8.2A	SZB8.2A	8.2	61	5.5	1300			6	244
S-CSZB9.1A	SZB9.1A	9.1	55	6	1300			7	220
S-CSZB10A	SZB10A	10	50	7	1300	0.25	20	7.6	200
S-CSZB11A	SZB11A	11	45	8	1300			8.4	182
S-CSZB12A	SZB12A	12	42	9	1300			9.1	167
S-CSZB13A	SZB13A	13	38	10	1300			9.9	154
S-CSZB15A	SZB15A	15	33	14	1300			11.4	133
S-CSZB16A	SZB16A	16	31	16	1300			12.2	125
S-CSZB18A	SZB18A	18	28	20	1300			13.7	111
S-CSZB20A	SZB20A	20	25	22	1300			15.2	100
S-CSZB22A	SZB22A	22	23	23	1300			16.7	91
S-CSZB24A	SZB24A	24	21	25	1300			18.2	83
S-CSZB27A	SZB27A	27	19	35	1300			20.6	74
S-CSZB30A	SZB30A	30	17	40	1500			22.8	67
S-CSZB33A	SZB33A	33	15	45	1500		5	25.1	61
S-CSZB36A	SZB36A	36	14	50	1500			27.4	56
S-CSZB39A	SZB39A	39	13	60	1500			29.7	51
S-CSZB43A	SZB43A	43	12	70	2500			32.7	47
S-CSZB47A	SZB47A	47	11	80	2500			35.8	43
S-CSZB51A	SZB51A	51	10	95	2500			38.8	39
S-CSZB56A	SZB56A	56	9	110	2500			42.6	36
S-CSZB62A	SZB62A	62	8	125	2500			47.1	32
S-CSZB68A	SZB68A	68	7	150	2500			51.7	29
S-CSZB75A	SZB75A	75	7	175	2500			56	27
S-CSZB82A	SZB82A	82	6	200	3000			62.2	24
S-CSZB91A	SZB91A	91	5	250	3000			69.2	22
S-CSZB100A	SZB100A	100	5	350	3000			76	20
S-CSZB110A	SZB110A	110	5	550	5000			83	18
S-CSZB120A	SZB120A	120	4	750	5500			90	17
S-CSZB130A	SZB130A	130	4	900	6000			98	15
S-CSZB150A	SZB150A	150	3	1200	6500			113	13
S-CSZB160A	SZB160A	160	3	1350	7000			120	13
S-CSZB180A	SZB180A	180	3	1650	8500			135	11
S-CSZB200A	SZB200A	200	3	1950	10000			150	10

5. ELECTRICAL CHARACTERISTICS CURVES

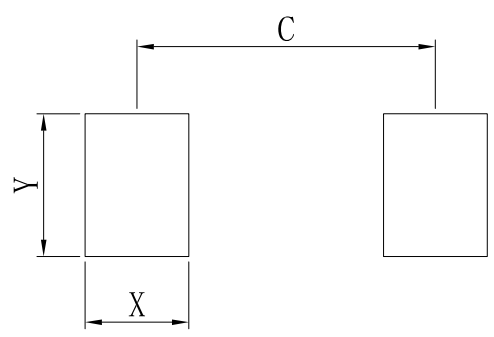


6. OUTLINE AND DIMENSIONS



CSMB			
DIM	MIN	TYP	MAX
A	2.20	2.35	2.50
A1	0.05	0.10	0.20
b	1.80	2.00	2.20
c	0.10	0.20	0.30
D	3.30	3.75	3.94
E	4.06	4.40	4.60
HE	5.20	5.31	5.45
L	0.90	1.30	1.60
θ	0°	~	8°
All Dimensions in mm			

7. SOLDERING FOOTPRINT



CSMB	
DIM	(mm)
X	1.60
Y	2.20
C	4.60

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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