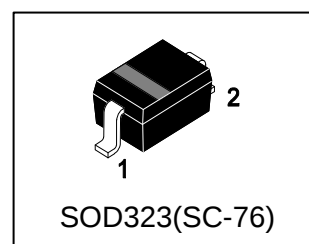


S-LUDZS8.2BT1G

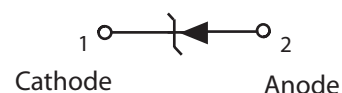
Zener Voltage Regulators

200 mW SOD-323 Surface Mount



1. FEATURES

- 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.
- Silicon epitaxial planar



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-LUDZS8.2BT1G	J2	3000/Tape&Reel
S-LUDZS8.2BT3G	J2	13000/Tape&Reel

3. MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	PD	200	mW
Thermal Resistance from Junction to Ambient(Note 1)	R θ JA	400	°C/W
Thermal Resistance from Junction to Case	R θ JC	175	°C/W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
Operating temperature	Topr	-55 to +150	°C

1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

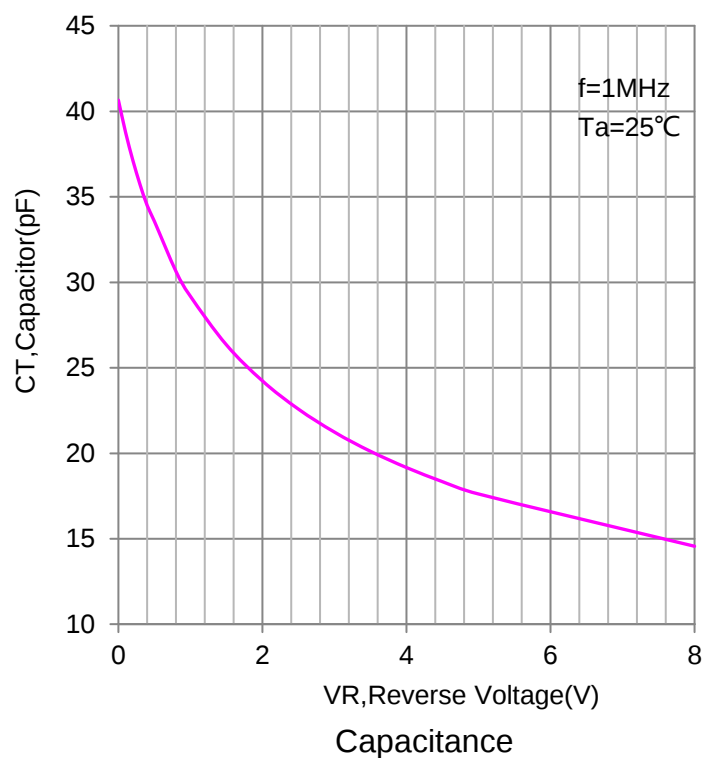
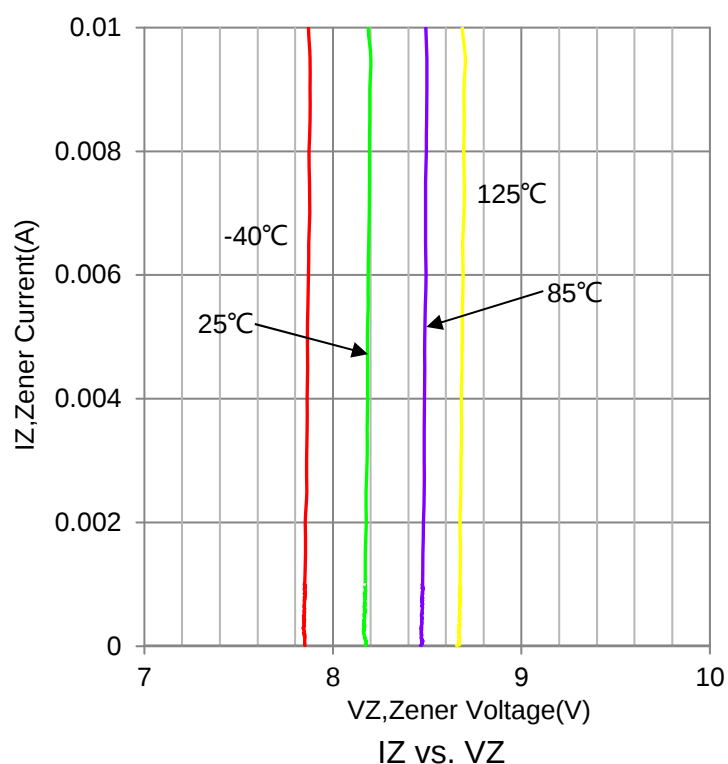
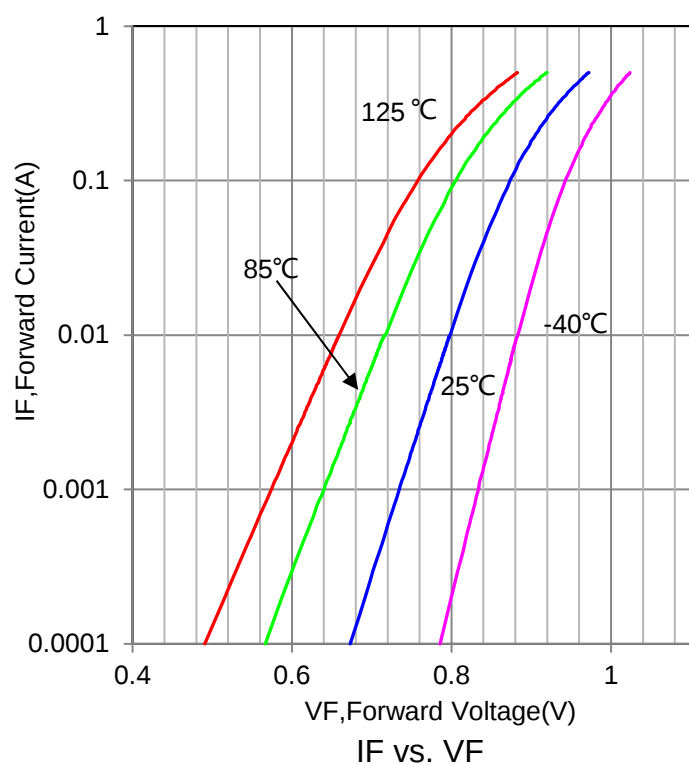
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage (IF = 10 mA)	VF	-	-	0.9	V
Zener voltage (IZT=5mA)	VZ	8.02	-	8.36	V
Operating resistance (IZT=5mA)	ZZT	-	-	30	Ω
Rising operating resistance (IZK=0.5mA)	ZZK	-	-	60	Ω
Reverse current (VR=5V)	IR	-	-	0.5	μA

2. The Zener voltage (Vz) is measured 40ms after power is supplied.

3. The operating resistances (Zz , Zzk) are measured by superimposing a minute alternating current on the regulated current (Iz).

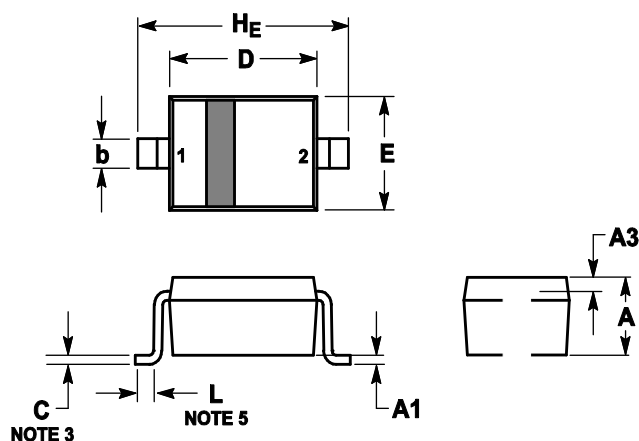
5.ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS

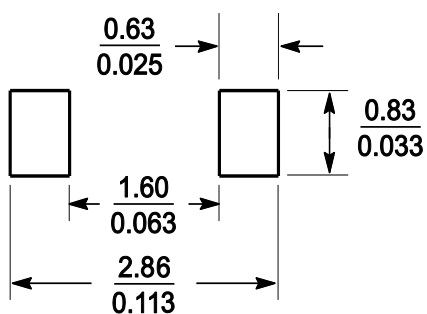
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.
5. DIMENSION L IS MEASURED FROM END OF RADIUS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.8	0.9	1	0.031	0.035	0.04
A1	0	0.05	0.1	0	0.002	0.004
A3	0.15REF			0.006REF		
b	0.25	0.32	0.4	0.01	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.6	1.7	1.8	0.062	0.066	0.07
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.3	2.5	2.7	0.09	0.098	0.105

7.SOLDERING FOOTPRINT



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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- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.