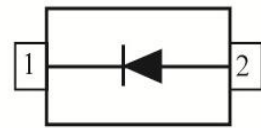
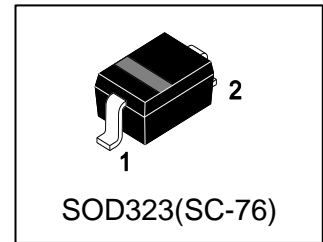


# LUDZS5.1BT1G

## S-LUDZS5.1BT1G

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.

### 2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LUDZS5.1BT1G	A2	3000/Tape&Reel
LUDZS5.1BT3G	A2	10000/Tape&Reel

### 3. MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	PD	200	mW
Thermal Resistance from Junction to Ambient	RθJA	635	°C/W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
Operating temperature	Topr	-55 to +150	°C

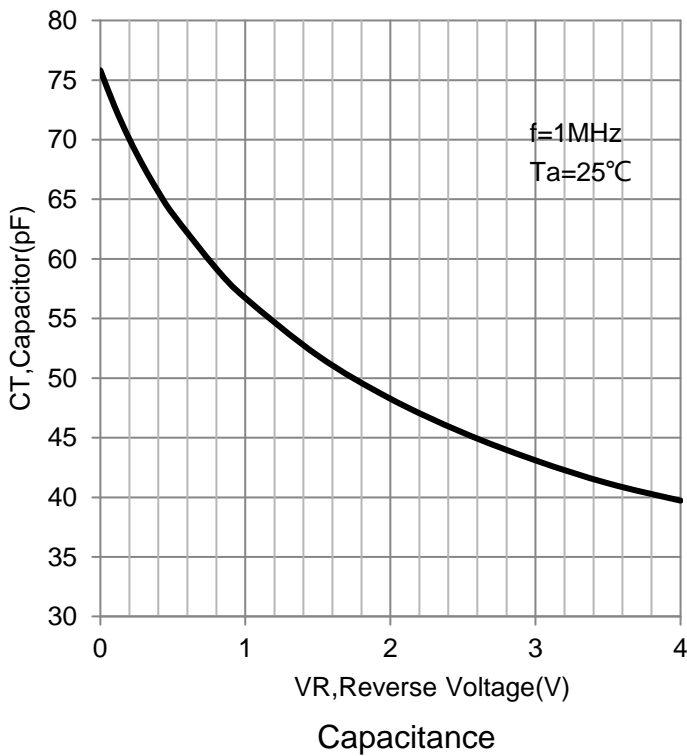
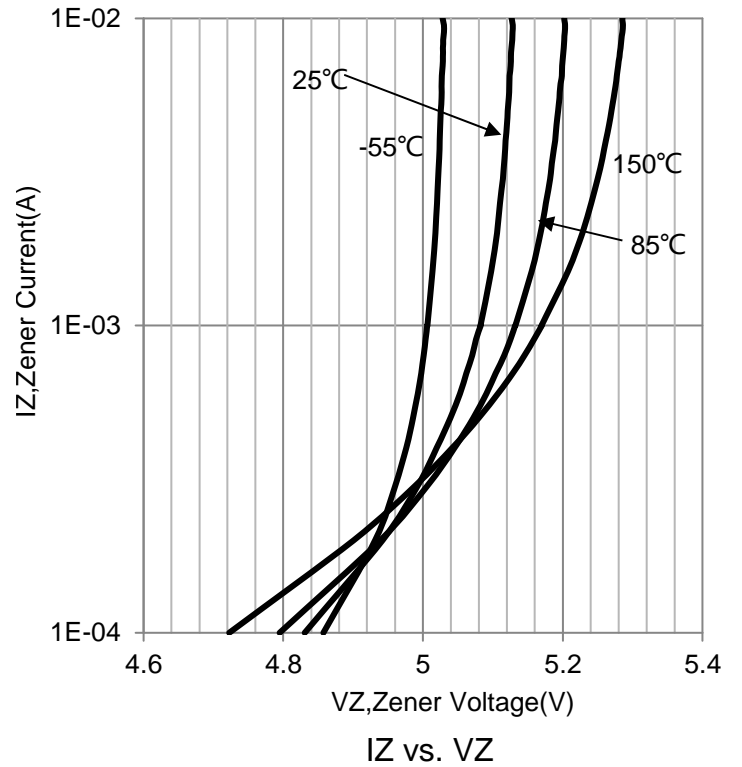
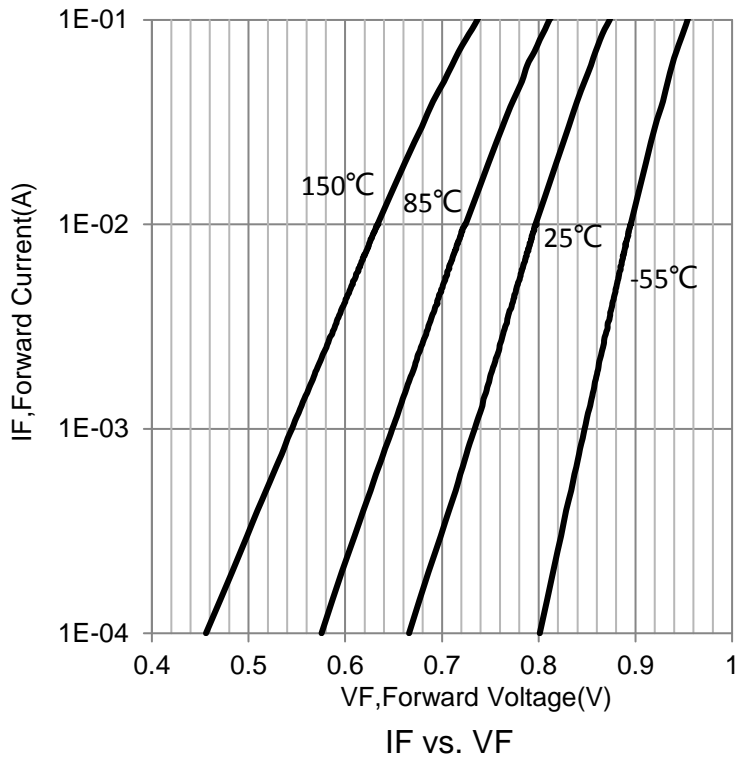
### 4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Zener voltage (IZT=5mA)	VZ	4.98	-	5.2	V
Operating resistance (IZT=5mA)	ZZT	-	-	80	Ω
Rising operating resistance (IZK=0.5mA)	ZZK	-	-	500	Ω
Reverse current (VR=1.5V)	IR	-	-	2	μA

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

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

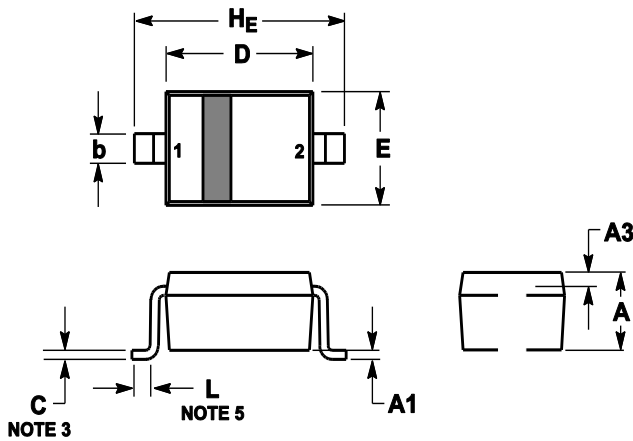
5.ELECTRICAL CHARACTERISTICS CURVES



## 6. OUTLINE AND DIMENSIONS

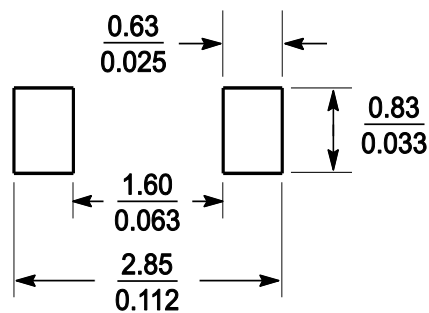
Notes:

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.



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 <sub>E</sub>	2.3	2.5	2.7	0.09	0.098	0.105

## 7. SOLDERING FOOTPRINT



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