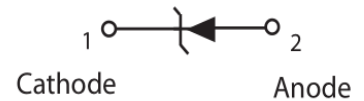
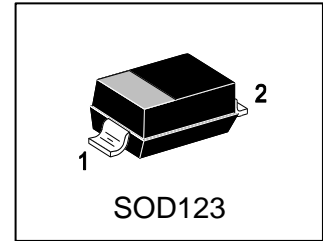


# LBZT52C5V6T1G

## S-LBZT52C5V6T1G

### SURFACE MOUNT ZENER DIODE



#### 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.
- 500mW power dissipation
- Ideal for surface mounted application

#### 2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBZT52C5V6T1G	W9	3000/Tape&Reel

#### 3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Forward Voltage @ IF=10mA	VF	0.9	V

#### 4. THERMAL CHARACTERISTICS

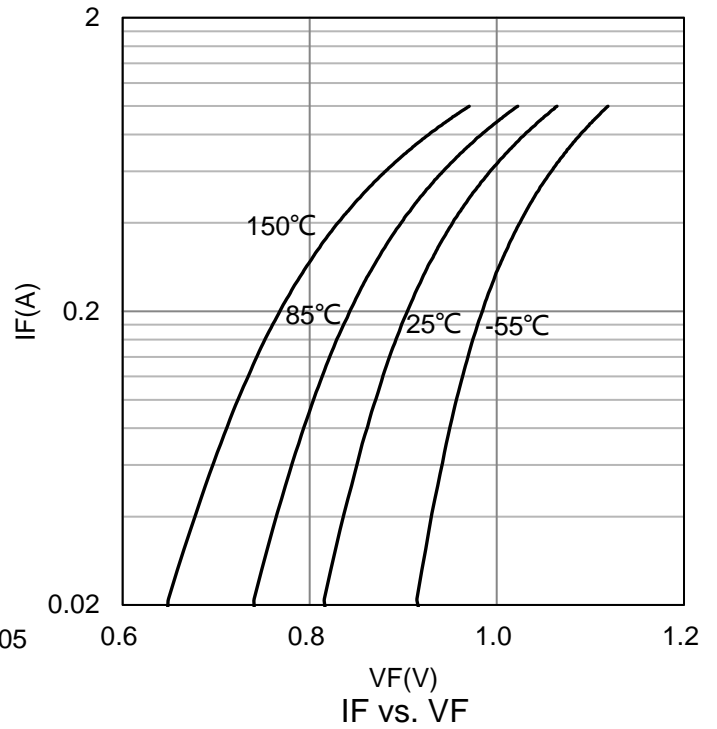
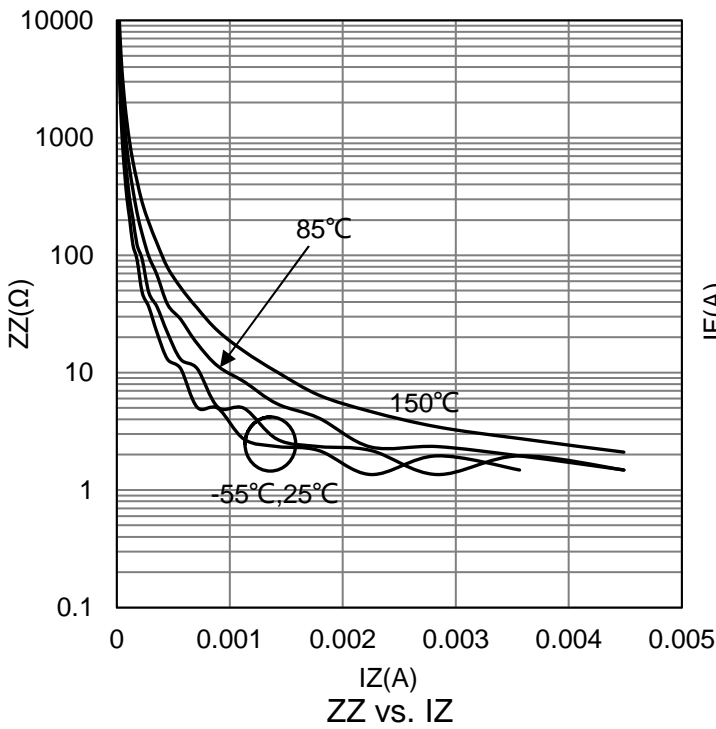
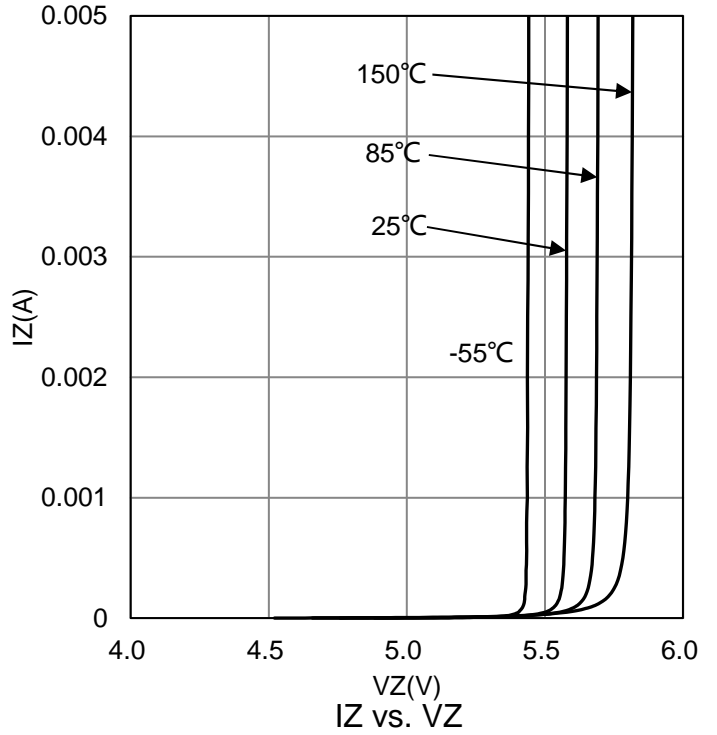
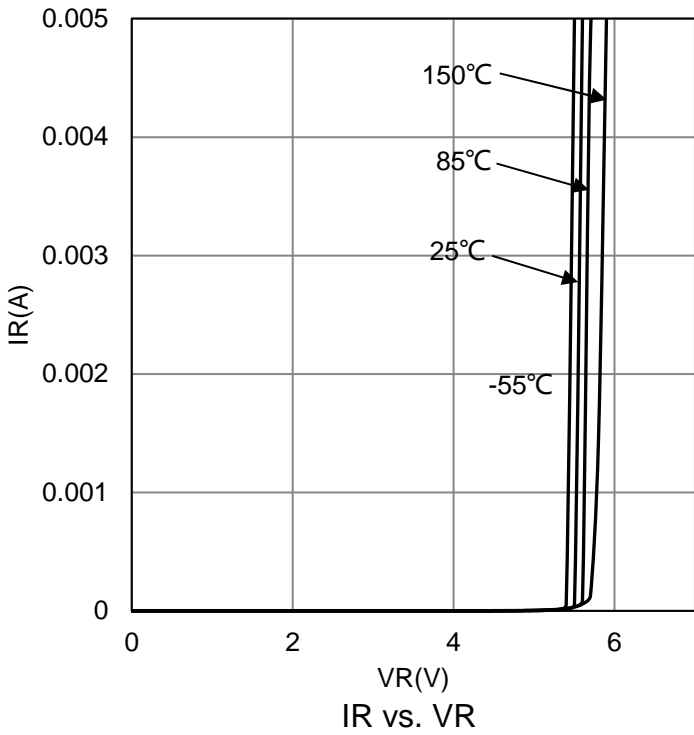
Parameter	Symbol	Limits	Unit
Total Power Dissipation on FR-5 Board(Note 1)	PD	500	mW
Thermal Resistance, Junction to Ambient Air(Note 1)	RθJA	305	°C/W
Junction and Storage temperature	TJ,Tstg	-55 ~ +150	°C

1. Device mounted on ceramic PCB; 7.6mm×9.4mm×0.87mm with pad areas 25mm<sup>2</sup>.

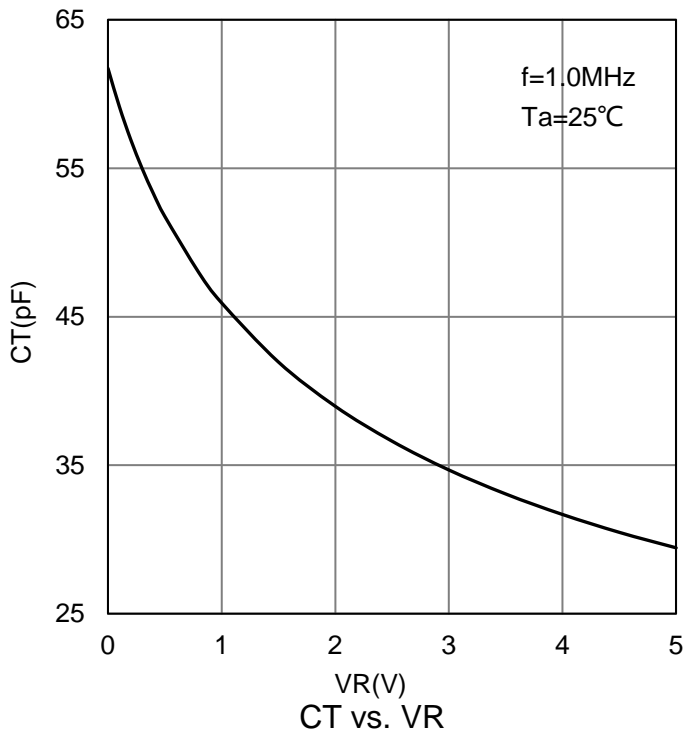
#### 5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Zener Voltage (IZT=5mA)	VZ	5.2	5.6	6.0	V
Operating Resistance (IZT=5mA)	ZZT	-	-	40	Ω
Rising Operating Resistance (IZK=1mA)	ZZK	-	-	400	Ω
Reverse Leakage Current (VR=2V)	IR	-	-	1	μA
Maximum Temperature Coefficient (IZT=5mA)	θVZ	-2.0	-	2.5	mV/°C

**6.ELECTRICAL CHARACTERISTICS CURVES**



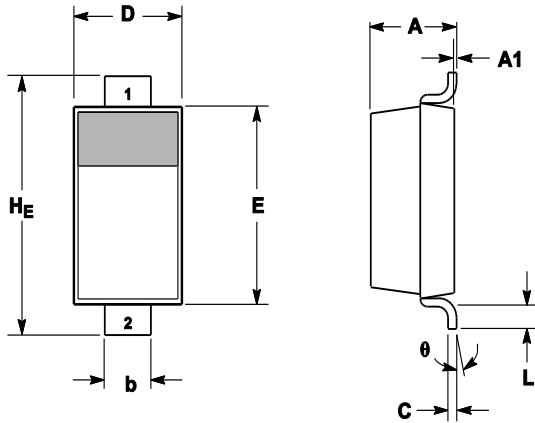
### 6.ELECTRICAL CHARACTERISTICS CURVES(Con.)



### 7. OUTLINE AND DIMENSIONS

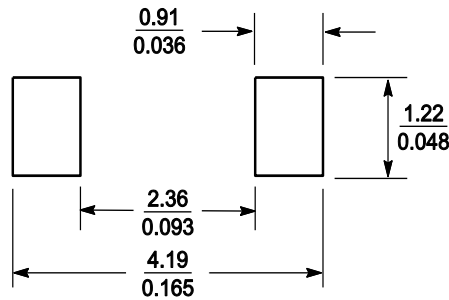
Notes:

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	0.94	1.17	1.35	0.037	0.046	0.053
A1	0.00	0.05	0.10	0.000	0.002	0.004
b	0.51	0.61	0.71	0.020	0.024	0.028
c	---	---	0.15	---	---	0.006
D	1.40	1.60	1.80	0.055	0.063	0.071
E	2.54	2.69	2.84	0.100	0.106	0.112
HE	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---
θ	0°	---	10°	0°	---	10°

### 8. SOLDERING FOOTPRINT



SCALE 10:1 (mm/inches)

## **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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