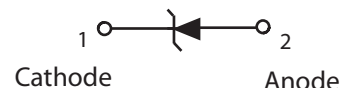
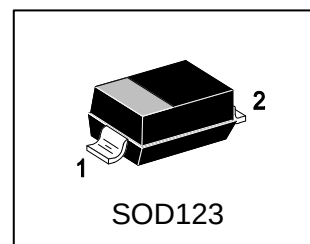


LBZT52C18T1G

SURFACE MOUNT ZENER DIODE

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- 300mW Power Dissipation
- Ideal for surface mounted application



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBZT52C18T1G	WL	3000/Tape&Reel

3. THERMAL CHARACTERISTICS

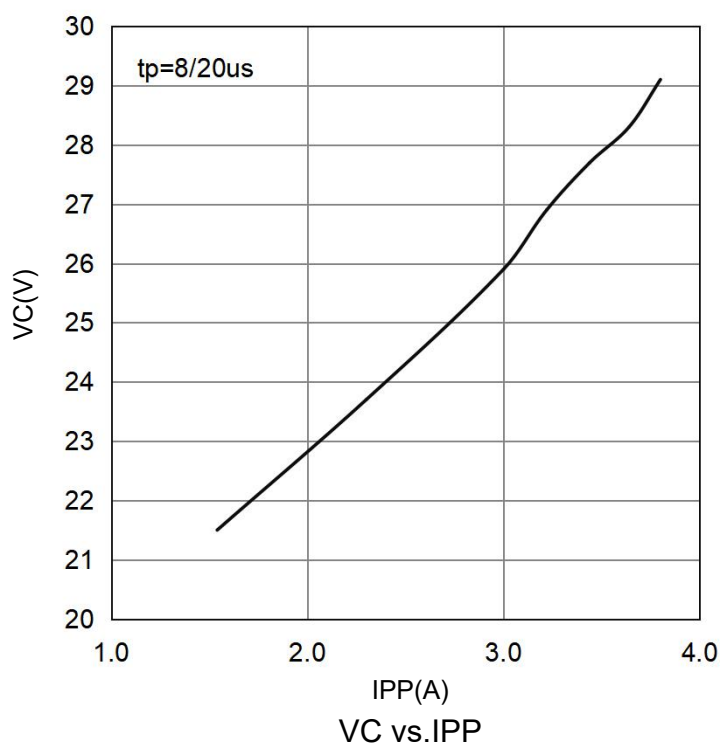
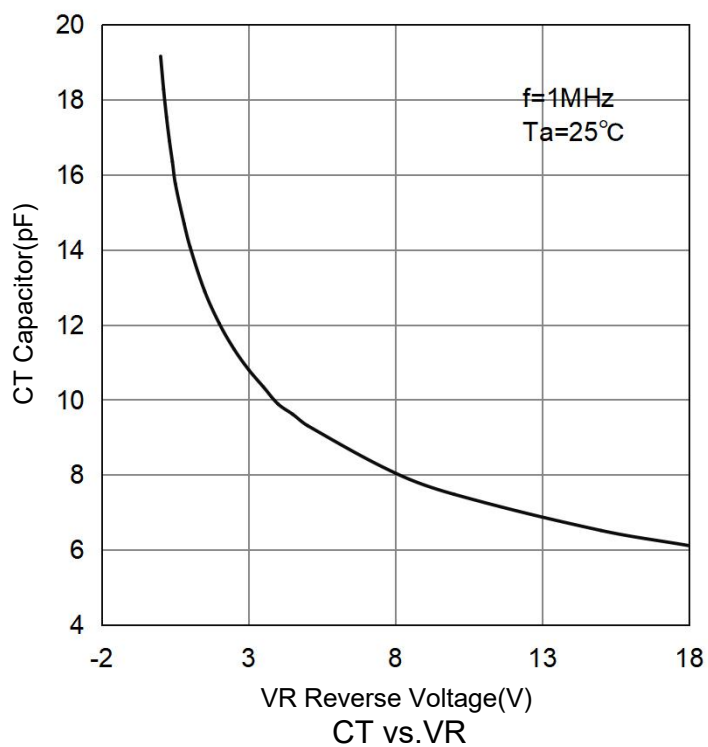
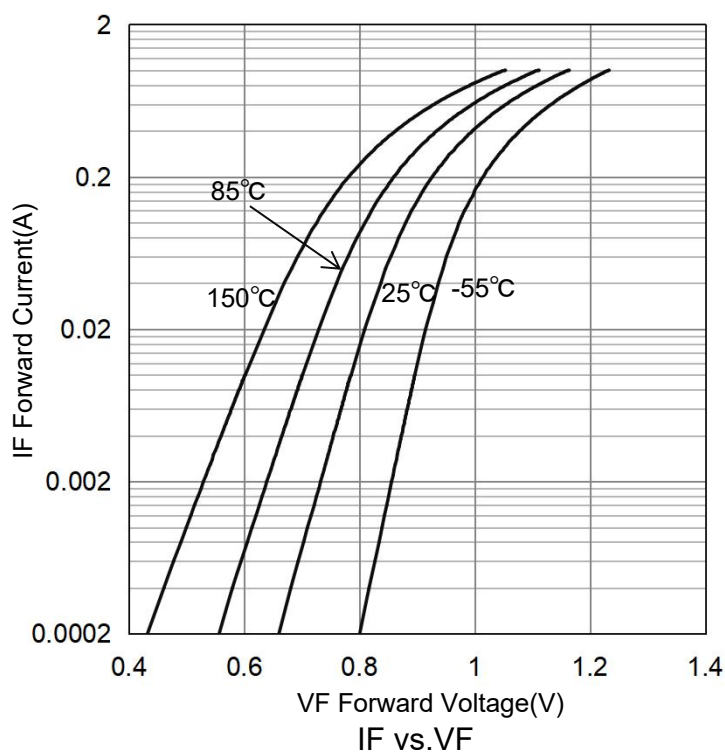
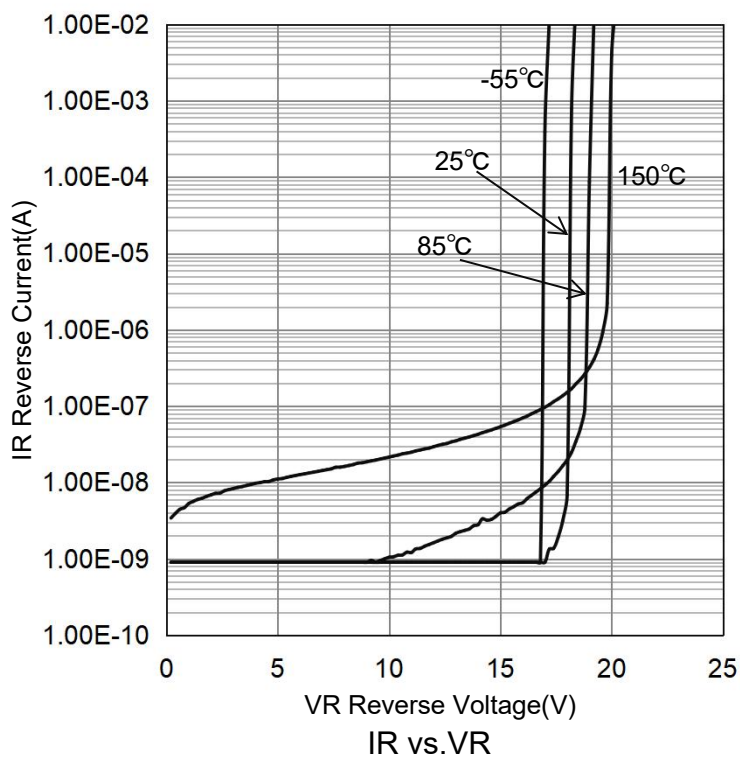
Parameter	Symbol	Limits	Unit
Total Power Dissipation on FR-4 Board(Note 1)	PD	300	mW
Thermal Resistance, Junction to Ambient(Note 1)	R θ JA	440	°C/W
Junction to Case	R θ JC	200	°C/W
Operating Temperature Range	Top	-55~+125	°C
Junction and Storage temperature	TJ,Tstg	-55~+150	°C

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	16.8	18	19.1	V
Operating Resistance (IZT=5mA)	ZZT	-	-	45	Ω
Rising Operating Resistance (IZK=1mA)	ZZK	-	-	225	Ω
Reverse Leakage Current (VR=12.6V)	IR	-	-	0.1	μA
Maximum Temperature Coefficient (IZT=5mA)	ΘVZ	12.4	-	16	mV/°C

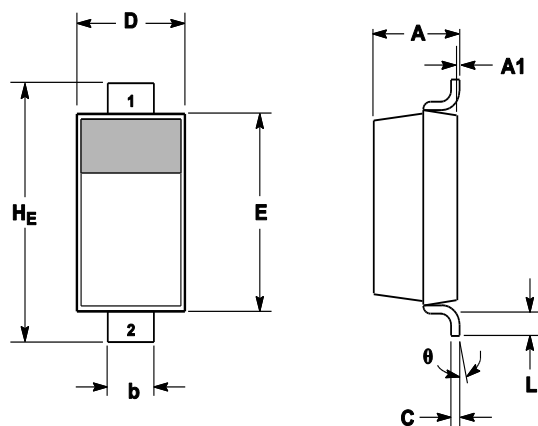
5.ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS

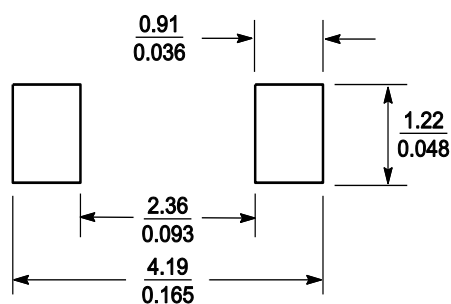
Notes:

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	0.94	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
H _E	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---
θ	0°	---	10°	0°	---	10°

7.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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