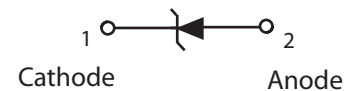
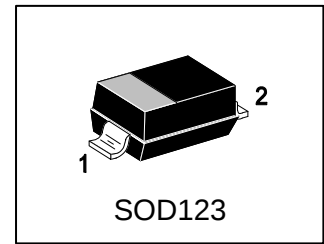


S-LBZT52C16T1G

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.
- Ideal for surface mounted application



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-LBZT52C16T1G	WK	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

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

4. THERMAL CHARACTERISTICS

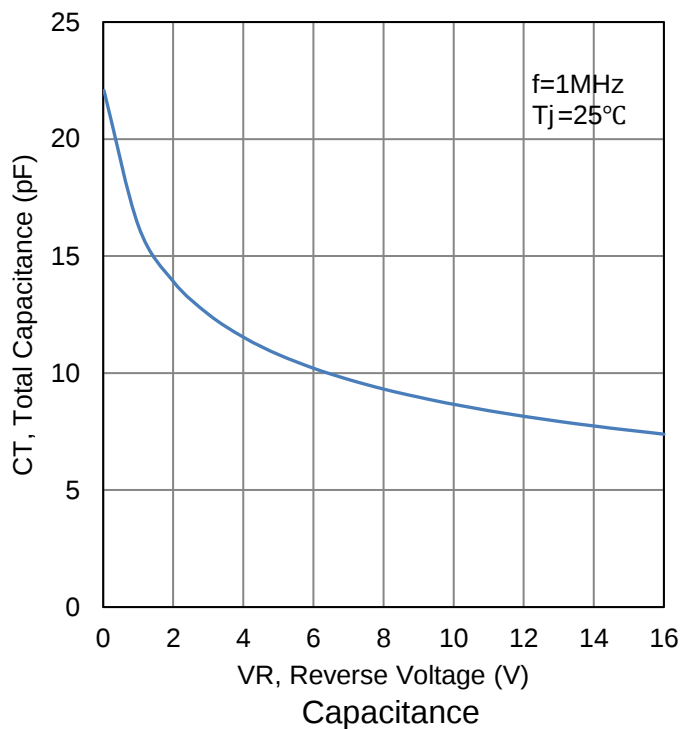
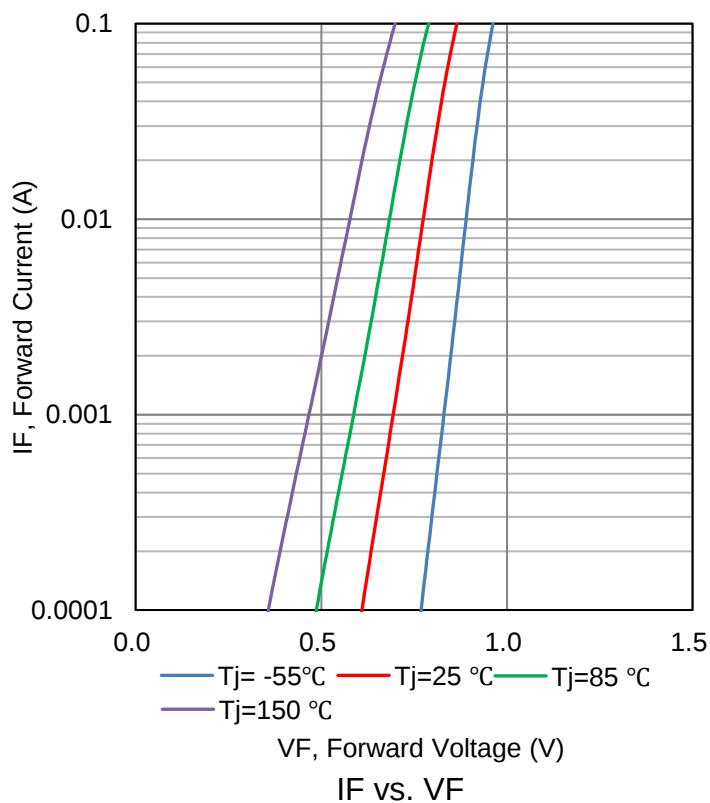
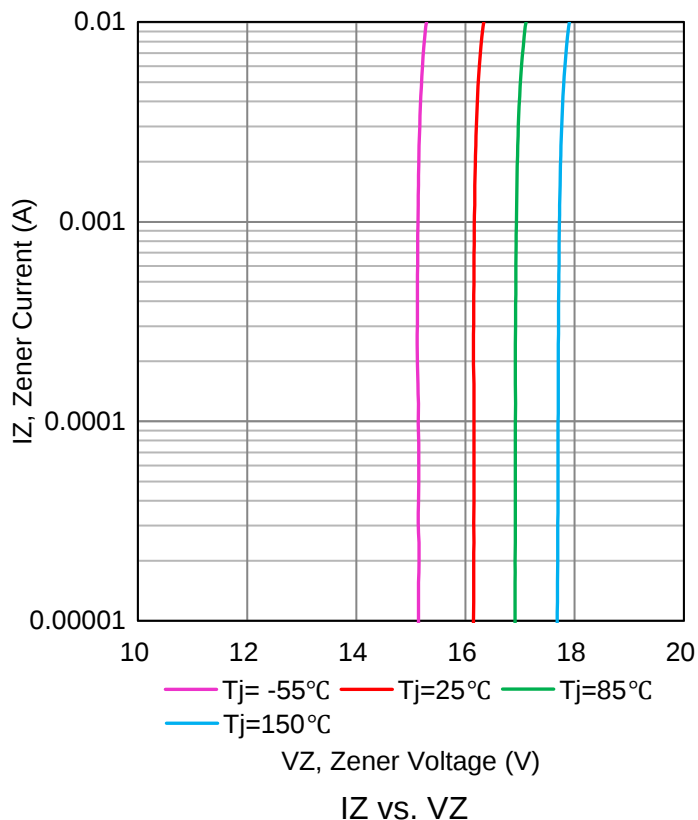
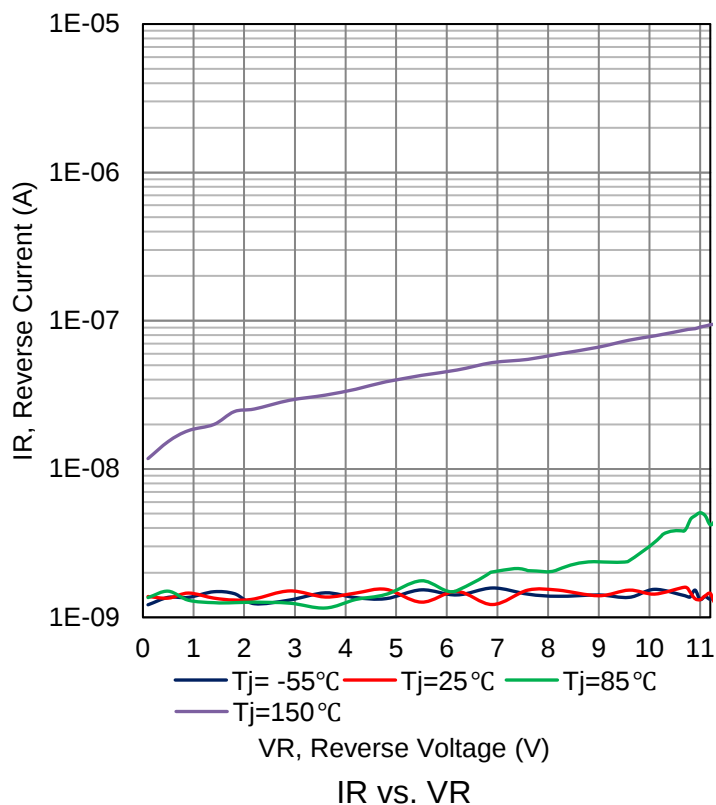
Parameter	Symbol	Limits	Unit
Total Power Dissipation on FR-4 Board(Note 1)	PD	308	mW
Thermal Resistance, Junction to Ambient Air(Note 1)	RθJA	406	°C/W
Junction and Storage temperature	TJ,Tstg	-55~+150	°C

1.30.0mm×25.0mm×1.6mm(FR4), Copper foil thickness 35μm;

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Zener Voltage (IZT=5mA)	VZ	15.3	16	17.1	V
Operating Resistance (IZT=5mA)	ZZT	-	-	40	Ω
Rising Operating Resistance (IZK=1mA)	ZZK	-	-	200	Ω
Reverse Leakage Current (VR=11.2V)	IR	-	-	0.1	μA

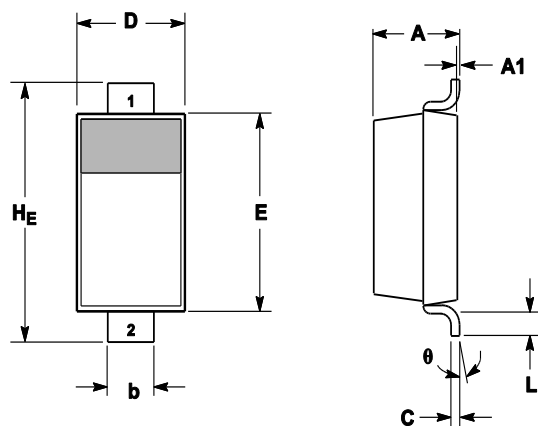
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS

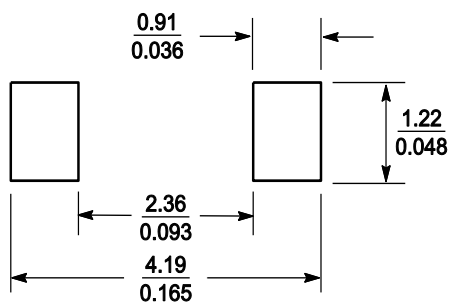
Notes:

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
H _E	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.
- Before you use our Products for new Project, you are requested to carefully read this document and fully understand its contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any LRC's Products against warning, caution or note contained in this document.
- 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.