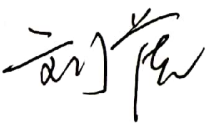

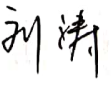
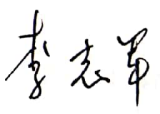
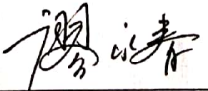


自贡兴川光电有限公司

Zigong xingchuan photoelectric co., ltd

元器件样品承认书

样品名称	稳压二极管			
规格型号	LBZT52C30T1G 30V, 0.5W, SOD-123, LRC (慧灵)			
物料编码	03.05.0000			
生产厂家	LRC			
样品数量	22PCS			
实验目的	新物料测试确认			
确认次数	首次确认			
部门	研发部	品质部	工程部	采购部
签字确认	 2019.6.28			
备注				
结论	可以使用			
批准			日期	2019.7.1

表格编号：




扫描全能王 创建

自贡兴川光电有限公司

Zigong xingchuan photoelectric co., ltd

样品测试报告

样品名称	稳压二极管	使用产品	ZSCI500逆控一体机
样品规格	LBZT52C30T1G (LRC)	样品数量	220 pcs
送样单位	研发部	送样日期	2019年6月24日
测试地点	汇东股份513室	环境温湿度	24℃ 73%RH
物料说明	稳压二极管LBZT52C30T1G, 30V, 0.5W, SOD-123		
物料分类	<input type="checkbox"/> 五金类 <input checked="" type="checkbox"/> 电子类 <input type="checkbox"/> 包材类 <input type="checkbox"/> 塑料类 <input type="checkbox"/> 套件类 <input type="checkbox"/> 辅料类 <input type="checkbox"/> 其他		
检验内容			
尺寸	尺寸符合规格书要求, 详细测试数据: 2.65mm×1.6mm×1.1mm 检验员: 刘俊 日期 2019.6.28		
外观、颜色	管身为黑色, 管脚为银白色, 外观颜色及规格标识清晰, 符合规格书要求 检验员: 刘俊 日期 2019.6.28		
装配	安装牢固可靠, 无抢位, 上锡度良好 检验员: 刘俊 日期 2019.6.28		
性能	正向电压VF=0.9V (IF=10mA); 稳压电压V=32.3V; 稳压电流Iz=2.12mA 检验员: 刘俊 日期 2019.6.28		
材质	 检验员: 刘俊 日期 2019.6.28		
其他	符合ZSCI500样机设计要求 符合电阻规格书要求 检验员: 刘俊 日期 2019.6.28		
检验结果	<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合 <input type="checkbox"/> 其他		
改善要求			
物料图片 (实物)			

表格编号:



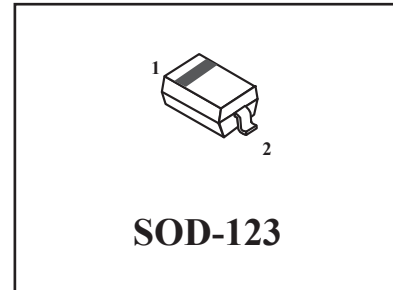
扫描全能王 创建

Surface Mount Zener Diodes

LBZT52C2V4T1G Series S-LBZT52C2V4T1G Series

Features:

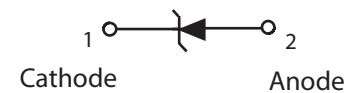
- *500mw Power Dissipation
- *Ideal for Surface Mount Application
- *Zener Breakdown Voltage Range 2.4V to 51V
- *We declare that the material of product compliant with RoHS and Halogen Free.
- *S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



Mechanical Data:

- *Case : SOD-123 Molded plastic
- *Terminals: Solderable per MIL-STD-202, Method 208
- *Polarity: Cathode Indicated by Polarity Band
- *Marking: Marking Code (See Table on Page 2)
- *Weigh: 0.01grams(approx)

Equivalent Circuit Diagram



Maximum Ratings and Electrical Characteristics (TA=25 °C Unless Otherwise Noted)

Characteristics	Symbol	Value	Unit
Total Power Dissipation on FR-5 Board ⁽¹⁾	P _D	500	mW
Thermal Resistance Junction to Ambient Air ⁽¹⁾	R _{θJA}	305	°C/W
Forward Voltage @ IF=10mA	V _F	0.9	V
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTES:

1. Device mounted on ceramic PCB; 7.6mm × 9.4mm × 0.87mm with pad areas 25mm²

Ratings and Characteristic curves

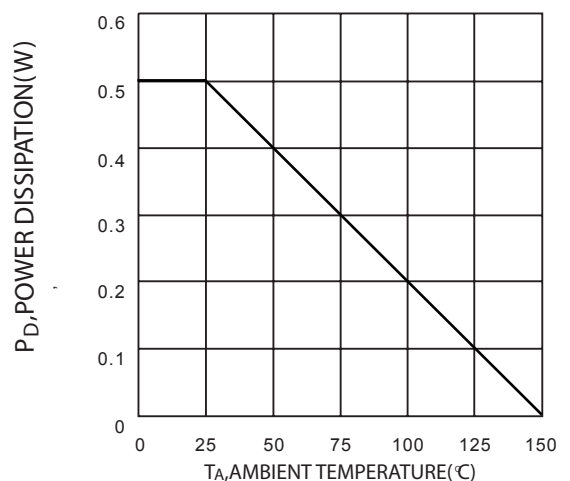


FIG. 1 Power Dissipation vs Ambient Temperature

LBZT52C2V4T1G Series,S-LBZT52C2V4T1G Series

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted, $V_F=0.9\text{V Max}@ I_F=10\text{mA}$)

Device	Device Marking (2)	Zener Voltage Range (1)				Maximum Zener Impedance(3)			Maximum Reverse Current		Typical Temperature Coefficient @ I_{ZT} mV/ $^{\circ}\text{C}$		Test Current I_{ZTC}
		$V_Z @ I_{ZT}$			@ I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{zk}	I_R	@ V_R			
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	μA	V	Min	Max	mA
LBZT52C2V4T1G	WX	2.4	2.2	2.6	5	100	600	1.0	50	1.0	-3.5	0	5
LBZT52C2V7T1G	W1	2.7	2.5	2.9	5	100	600	1.0	20	1.0	-3.5	0	5
LBZT52C3V0T1G	W2	3.0	2.8	3.2	5	95	600	1.0	10	1.0	-3.5	0	5
LBZT52C3V3T1G	W3	3.3	3.1	3.5	5	95	600	1.0	5.0	1.0	-3.5	0	5
LBZT52C3V6T1G	W4	3.6	3.4	3.8	5	90	600	1.0	5.0	1.0	-3.5	0	5
LBZT52C3V9T1G	W5	3.9	3.7	4.1	5	90	600	1.0	3.0	1.0	-3.5	0	5
LBZT52C4V3T1G	W6	4.3	4.0	4.6	5	90	600	1.0	3.0	1.0	-3.5	0	5
LBZT52C4V7T1G	W7	4.7	4.4	5.0	5	80	500	1.0	3.0	2.0	-3.5	0.2	5
LBZT52C5V1T1G	W8	5.1	4.8	5.4	5	60	480	1.0	2.0	2.0	-2.7	1.2	5
LBZT52C5V6T1G	W9	5.6	5.2	6.0	5	40	400	1.0	1.0	2.0	-2.0	2.5	5
LBZT52C6V2T1G	WA	6.2	5.8	6.6	5	10	150	1.0	3.0	4.0	0.4	3.7	5
LBZT52C6V8T1G	WB	6.8	6.4	7.2	5	15	80	1.0	2.0	4.0	1.2	4.5	5
LBZT52C7V5T1G	WC	7.5	7.0	7.9	5	15	80	1.0	1.0	5.0	2.5	5.3	5
LBZT52C8V2T1G	WD	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2	5
LBZT52C9V1T1G	WE	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0	5
LBZT52C10T1G	WF	10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0	5
LBZT52C11T1G	WG	11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0	5
LBZT52C12T1G	WH	12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0	5
LBZT52C13T1G	WI	13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0	5
LBZT52C15T1G	WJ	15	13.8	15.8	5	30	200	1.0	0.1	10.5	9.2	13.0	5
LBZT52C16T1G	WK	16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0	5
LBZT52C18T1G	WL	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0	5
LBZT52C20T1G	WM	20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0	5
LBZT52C22T1G	WN	22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0	5
LBZT52C24T1G	WO	24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0	5
LBZT52C27T1G	WP	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3	2
LBZT52C30T1G	WQ	30	28.0	32	2	80	300	0.5	0.1	21.0	24.4	29.4	2
LBZT52C33T1G	WR	33	31.0	35	2	80	325	0.5	0.1	23.1	27.4	33.4	2
LBZT52C36T1G	WS	36	34.0	38	2	90	350	0.5	0.1	25.2	30.4	37.4	2
LBZT52C39T1G	WT	39	37.0	41	2	130	350	0.5	0.1	27.3	33.4	41.2	2
LBZT52C43T1G	WU	43	40.0	46	2	100	700	1.0	0.1	32	10.0	12.0	5
LBZT52C47T1G	WV	47	44.0	50	2	100	750	1.0	0.1	35	10.0	12.0	5
LBZT52C51T1G	WW	51	48.0	54	2	100	750	1.0	0.1	38	10.0	12.0	5

Note:

1. Tested with pulses, period = 5ms, pulse width = 300us.
2. When provided, otherwise, parts are provided with date code only, and type number identifications appears on reel only.
3. $f=1\text{KHz}$.

LBZT52C2V4T1G Series , S-LBZT52C2V4T1G Series

ELECTRICAL CHARACTERISTIC CURVES (Ta=25°C)

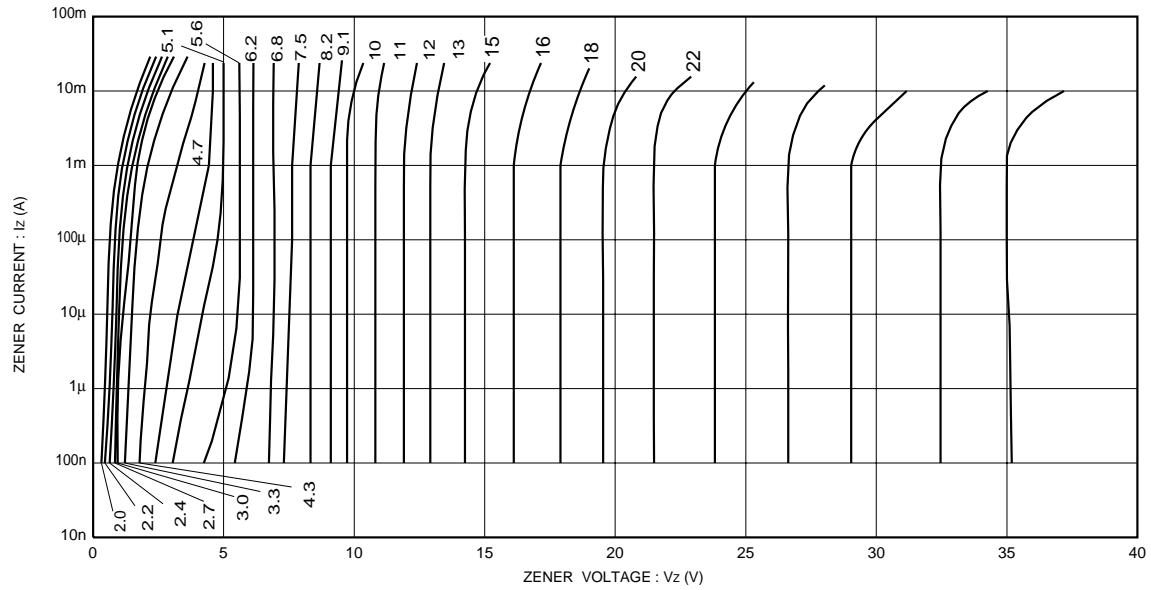
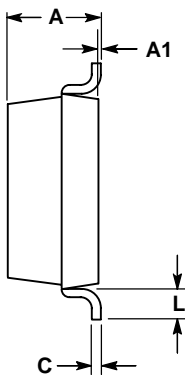
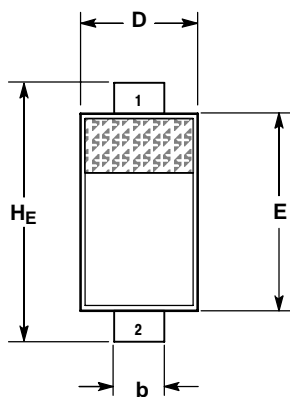


Fig.1 Zener voltage characteristics

LBZT52C2V4T1G Series, S-LBZT52C2V4T1G Series

SOD-123



NOTES:

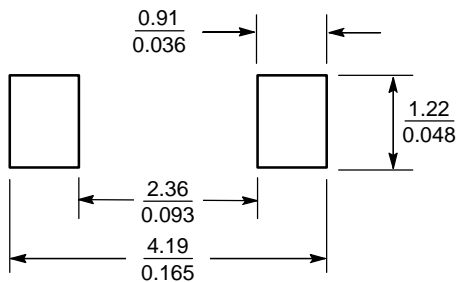
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

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	---	---

STYLE 1:

- PIN 1: CATHODE
- PIN 2: ANODE

SOLDERING FOOTPRINT*



SCALE 10:1 (mm/inches)