

# Zener diode

## LEDZ2.4BPT1G Series

### ●Applications

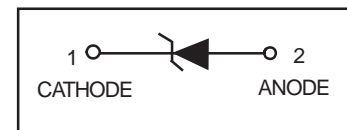
Constant voltage control

### ●Features

- 1) 2-pin ultra mini-mold type for high-density mounting .
- 2) High reliability.
- 3) Can be mounted automatically, using chip mounter.
- 4) We declare that the material of product compliance with RoHS requirements and Halogen Free.
- 5) Pb-Free package is available

### ●Construction

Silicon epitaxial planar



### ● ORDERING INFORMATION

Device	Package	Shipping
LEDZ2.4BPT1G Series	SOD-523	3000/Tape&Reel
LEDZ2.4BPT5G Series	SOD-523	8000/Tape&Reel

### ● Absolute maximum ratings

Parameter	Symbol	Limits	Unit
Power dissipation	$P_D$	300	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C
Operating temperature	$T_{opr}$	-55 to +150	°C

### ● Type No.

TYPE	TYPE NO.	TYPE	TYPE NO.
LEDZ2.4BPT1G	22	LEDZ10BPT1G	05
LEDZ2.7BPT1G	32	LEDZ11BPT1G	15
LEDZ3.0BPT1G	42	LEDZ12BPT1G	25
LEDZ3.3BPT1G	52	LEDZ13BPT1G	35
LEDZ3.6BPT1G	62	LEDZ15BPT1G	45
LEDZ3.9BPT1G	72	LEDZ16BPT1G	55
LEDZ4.3BPT1G	82	LEDZ18BPT1G	65
LEDZ4.7BPT1G	92	LEDZ20BPT1G	75
LEDZ5.1BPT1G	A2	LEDZ22BPT1G	85
LEDZ5.6BPT1G	C2	LEDZ24BPT1G	95
LEDZ6.2BPT1G	E2	LEDZ27BPT1G	A 5
LEDZ6.8BPT1G	F2	LEDZ30BPT1G	C5
LEDZ7.5BPT1G	H2	LEDZ33BPT1G	E5
LEDZ8.2BPT1G	J2	LEDZ36BPT1G	F5
LEDZ9.1BT1G	L2		

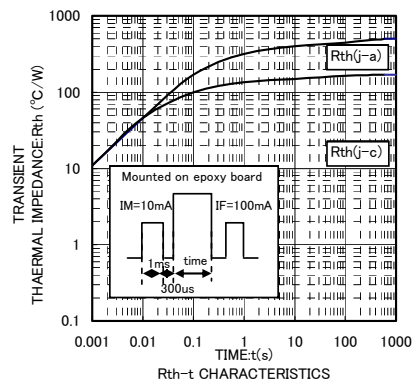
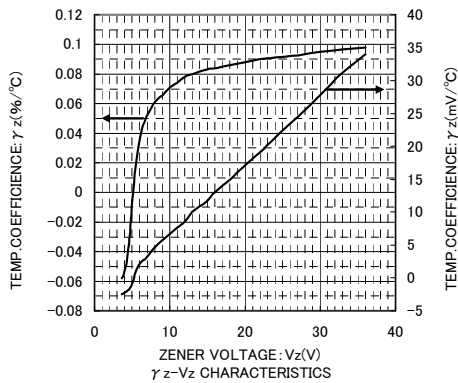
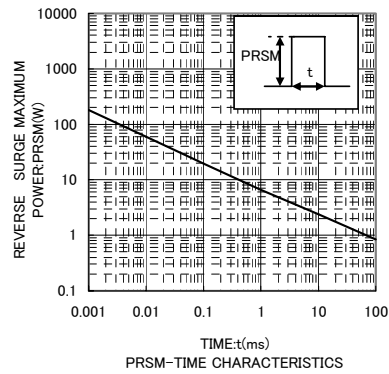
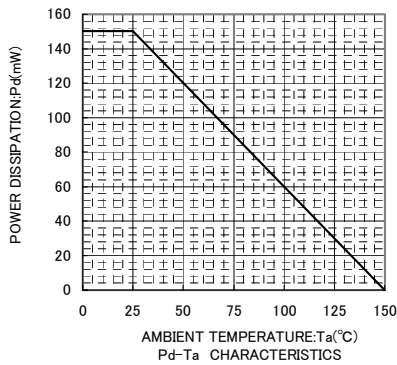
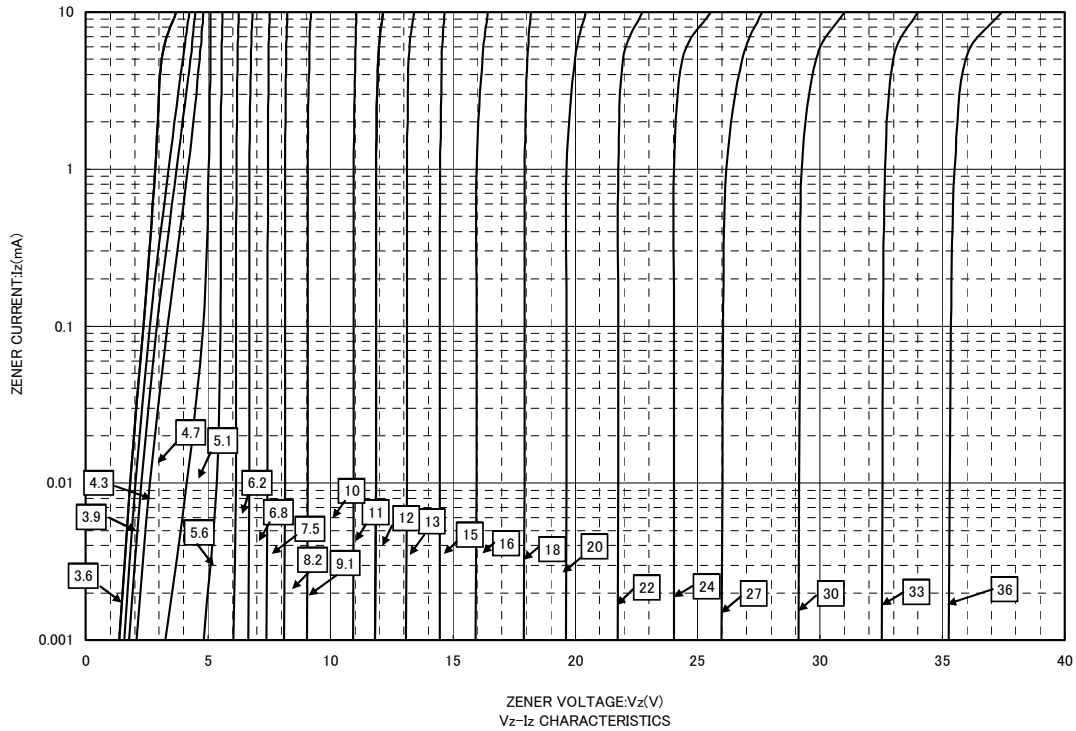
## LEDZ2.4BPT1G Series

Electrical characteristics (Ta=25°C)

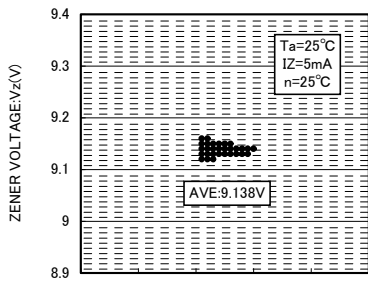
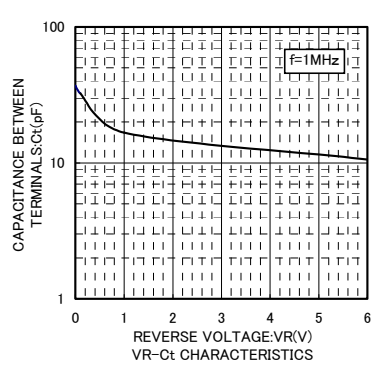
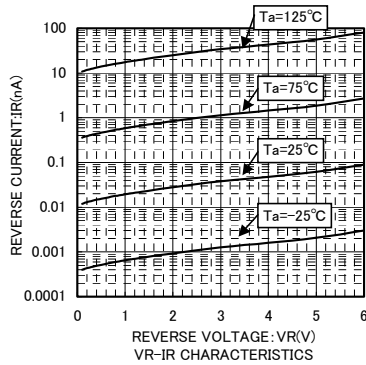
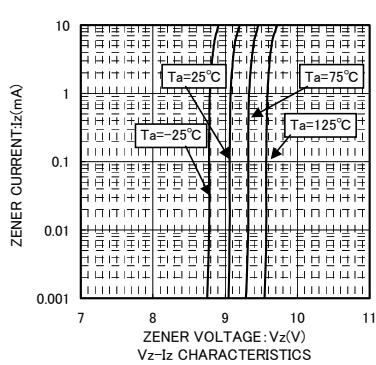
TYP.	Symbol								
	Zener voltage : Vz(V)			Operating resistance : Zz(Ω)		Rising operating resistance : Zz(Ω)		Reverse current : IR(μA)	
	MIN.	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	VR(V)
LEDZ2.4BPT1G	2.43	2.63	5.0	100	5.0	1000.0	0.5	100	1.0
LEDZ2.7BPT1G	2.69	2.91	5.0	110	5.0	1000.0	0.5	100	1.0
LEDZ3.0BPT1G	3.01	3.22	5.0	120	5.0	1000.0	0.5	50	1.0
LEDZ3.3BPT1G	3.32	3.53	5.0	120	5.0	1000.0	0.5	20	1.0
LEDZ3.6BPT1G	3.600	3.845	5.0	100	5.0	1000.0	1.0	10.0	1.0
LEDZ3.9BPT1G	3.890	4.160	5.0	100	5.0	1000.0	1.0	5.0	1.0
LEDZ4.3BPT1G	4.170	4.430	5.0	100	5.0	1000.0	1.0	5.0	1.0
LEDZ4.7BPT1G	4.550	4.750	5.0	100	5.0	800.0	0.5	2.0	1.0
LEDZ5.1BPT1G	4.980	5.200	5.0	80	5.0	500.0	0.5	2.0	1.5
LEDZ5.6BPT1G	5.490	5.730	5.0	60	5.0	200.0	0.5	1.0	2.5
LEDZ6.2BPT1G	6.060	6.330	5.0	60	5.0	100.0	0.5	1.0	3.0
LEDZ6.8BPT1G	6.650	6.930	5.0	40	5.0	60.0	0.5	0.5	3.5
LEDZ7.5BPT1G	7.280	7.600	5.0	30	5.0	60.0	0.5	0.5	4.0
LEDZ8.2BPT1G	8.020	8.360	5.0	30	5.0	60.0	0.5	0.5	5.0
LEDZ9.1BPT1G	8.850	9.230	5.0	30	5.0	60.0	0.5	0.5	6.0
LEDZ10BPT1G	9.770	10.210	5.0	30	5.0	60.0	0.5	0.1	7.0
LEDZ11BPT1G	10.760	11.220	5.0	30	5.0	60.0	0.5	0.1	8.0
LEDZ12BPT1G	11.740	12.240	5.0	30	5.0	80.0	0.5	0.1	9.0
LEDZ13BPT1G	12.910	13.490	5.0	37	5.0	80.0	0.5	0.1	10.0
LEDZ15BPT1G	14.340	14.980	5.0	42	5.0	80.0	0.5	0.1	11.0
LEDZ16BPT1G	15.850	16.510	5.0	50	5.0	80.0	0.5	0.1	12.0
LEDZ18BPT1G	17.560	18.350	5.0	65	5.0	80.0	0.5	0.1	13.0
LEDZ20BPT1G	19.520	20.390	5.0	85	5.0	100.0	0.5	0.1	15.0
LEDZ22BPT1G	21.540	22.470	5.0	100	5.0	100.0	0.5	0.1	17.0
LEDZ24BPT1G	23.720	24.780	5.0	120	5.0	120.0	0.5	0.1	19.0
LEDZ27BPT1G	26.190	27.530	2.0	150	2.0	150.0	0.5	0.1	21.0
LEDZ30BPT1G	29.190	30.690	2.0	200	2.0	200.0	0.5	0.1	23.0
LEDZ33BPT1G	32.150	33.790	2.0	250	2.0	250.0	0.5	0.1	25.0
LEDZ36BPT1G	35.070	36.870	2.0	300	2.0	300.0	0.5	0.1	27.0

# LEDZ2.4BPT1G Series

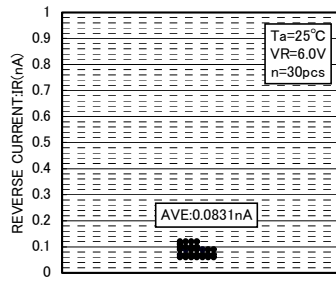
●Electrical characteristic curves (Ta=25°C)



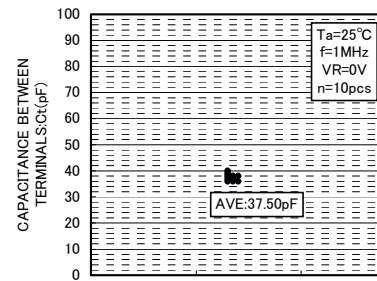
# LEDZ2.4BPT1G Series



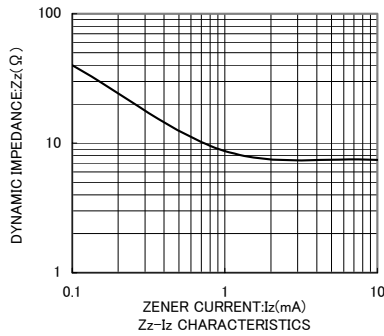
V<sub>z</sub> DISPERSION MAP



I<sub>R</sub> DISPERSION MAP

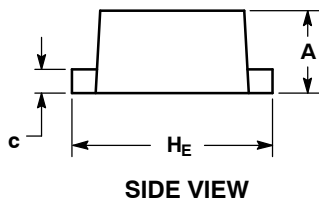
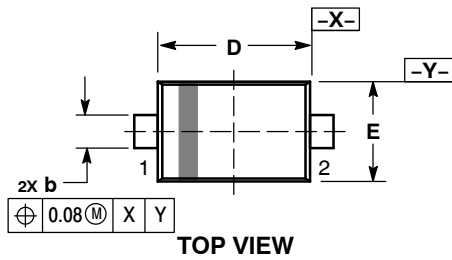


C<sub>t</sub> DISPERSION MAP

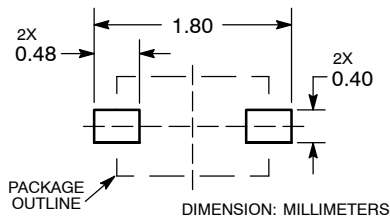


# LEDZ2.4BPT1G Series

## SC-79/SOD-523



### RECOMMENDED SOLDERING FOOTPRINT\*



**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
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		
	MIN	NOM	MAX
A	0.50	0.60	0.70
b	0.25	0.30	0.35
c	0.07	0.14	0.20
D	1.10	1.20	1.30
E	0.70	0.80	0.90
H <sub>E</sub>	1.50	1.60	1.70
L	0.30 REF		
L2	0.15	0.20	0.25

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