

# Zener diode

## ●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
- 6) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

## ●Construction

Silicon epitaxial planar

## ● ORDERING INFORMATION

Device	Package	Shipping
EDZxxB Series	SOD-523	3000/Tape&Reel

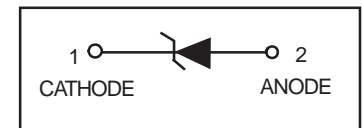
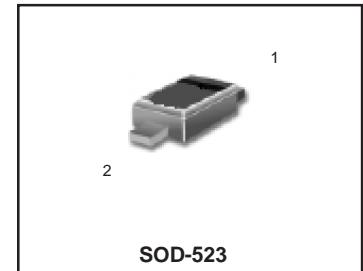
## ● Absolute maximum ratings

Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C
Operating temperature	T <sub>opr</sub>	-55 to +150	°C

## ● Type No.

TYPE	TYPE NO.	TYPE	TYPE NO.
EDZ2.4B	22	EDZ10B	05
EDZ2.7B	32	EDZ11B	15
EDZ3.0B	42	EDZ12B	25
EDZ3.3B	52	EDZ13B	35
EDZ3.6B	62	EDZ15B	45
EDZ3.9B	72	EDZ16B	55
EDZ4.3B	82	EDZ18B	65
EDZ4.7B	92	EDZ20B	75
EDZ5.1B	A2	EDZ22B	85
EDZ5.6B	C2	EDZ24B	95
EDZ6.2B	E2	EDZ27B	A5
EDZ6.8B	F2	EDZ30B	C5
EDZ7.5B	H2	EDZ33B	E5
EDZ8.2B	J2	EDZ36B	F5
EDZ9.1BT	L2		

**EDZxxB  
Series  
S-EDZxxB  
Series**



## EDZxxB Series,S-EDZxxB Series

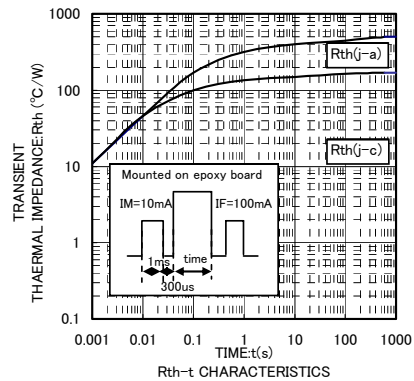
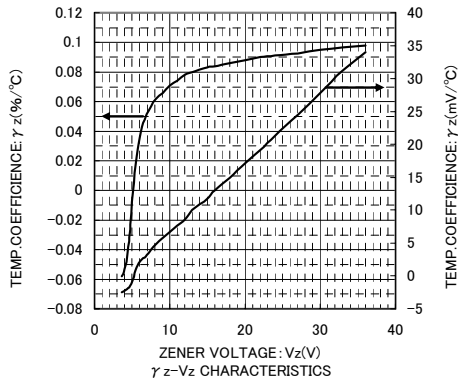
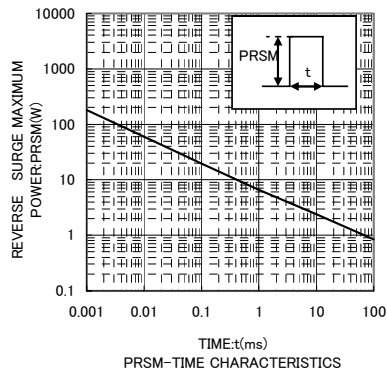
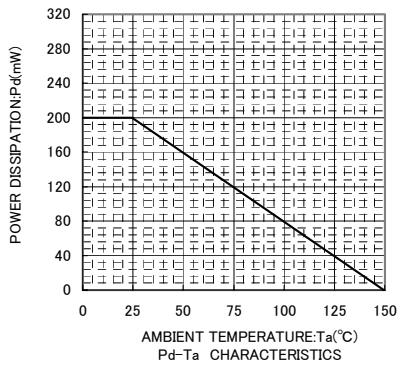
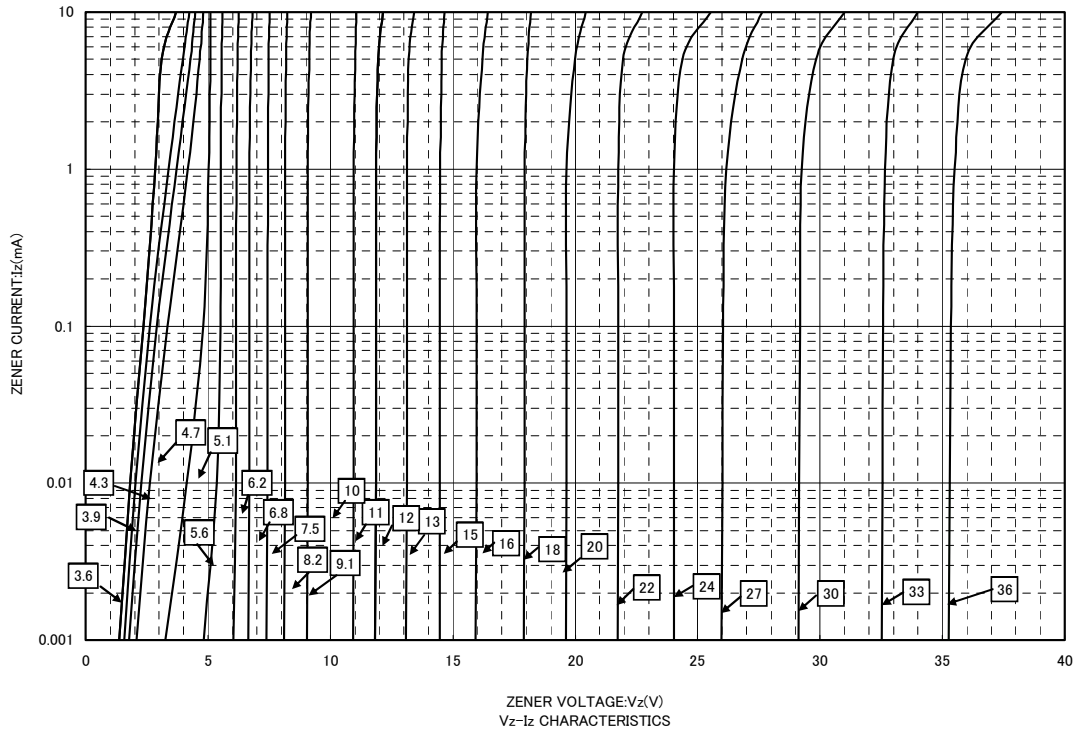
**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.9\text{ V Max.}$  @  $I_F = 10\text{ mA}$  for all types)

TYP.	Symbol								
	Zener voltage : Vz(V)			Operating resistance : Zz( $\Omega$ )		Rising operating resistance : Zz( $\Omega$ )		Reverse current : IR( $\mu\text{A}$ )	
	MIN.	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	VR(V)
EDZ2.4B	2.43	2.63	5.0	100	5.0	1000.0	0.5	100	1.0
EDZ2.7B	2.69	2.91	5.0	110	5.0	1000.0	0.5	100	1.0
EDZ3.0B	3.01	3.22	5.0	120	5.0	1000.0	0.5	50	1.0
EDZ3.3B	3.32	3.53	5.0	120	5.0	1000.0	0.5	20	1.0
EDZ3.6B	3.600	3.845	5.0	100	5.0	1000.0	1.0	10.0	1.0
EDZ3.9B	3.890	4.160	5.0	100	5.0	1000.0	1.0	5.0	1.0
EDZ4.3B	4.170	4.430	5.0	100	5.0	1000.0	1.0	5.0	1.0
EDZ4.7B	4.550	4.750	5.0	100	5.0	800.0	0.5	2.0	1.0
EDZ5.1B	4.980	5.200	5.0	80	5.0	500.0	0.5	2.0	1.5
EDZ5.6B	5.490	5.730	5.0	60	5.0	200.0	0.5	1.0	2.5
EDZ6.2B	6.060	6.330	5.0	60	5.0	100.0	0.5	1.0	3.0
EDZ6.8B	6.650	6.930	5.0	40	5.0	60.0	0.5	0.5	3.5
EDZ7.5B	7.280	7.600	5.0	30	5.0	60.0	0.5	0.5	4.0
EDZ8.2B	8.020	8.360	5.0	30	5.0	60.0	0.5	0.5	5.0
EDZ9.1B	8.850	9.230	5.0	30	5.0	60.0	0.5	0.5	6.0
EDZ10B	9.770	10.210	5.0	30	5.0	60.0	0.5	0.1	7.0
EDZ11B	10.760	11.220	5.0	30	5.0	60.0	0.5	0.1	8.0
EDZ12B	11.740	12.240	5.0	30	5.0	80.0	0.5	0.1	9.0
EDZ13B	12.910	13.490	5.0	37	5.0	80.0	0.5	0.1	10.0
EDZ15B	14.340	14.980	5.0	42	5.0	80.0	0.5	0.1	11.0
EDZ16B	15.850	16.510	5.0	50	5.0	80.0	0.5	0.1	12.0
EDZ18B	17.560	18.350	5.0	65	5.0	80.0	0.5	0.1	13.0
EDZ20B	19.520	20.390	5.0	85	5.0	100.0	0.5	0.1	15.0
EDZ22B	21.540	22.470	5.0	100	5.0	100.0	0.5	0.1	17.0
EDZ24B	23.720	24.780	5.0	120	5.0	120.0	0.5	0.1	19.0
EDZ27B	26.190	27.530	2.0	150	2.0	150.0	0.5	0.1	21.0
EDZ30B	29.190	30.690	2.0	200	2.0	200.0	0.5	0.1	23.0
EDZ33B	32.150	33.790	2.0	250	2.0	250.0	0.5	0.1	25.0
EDZ36B	35.070	36.870	2.0	300	2.0	300.0	0.5	0.1	27.0

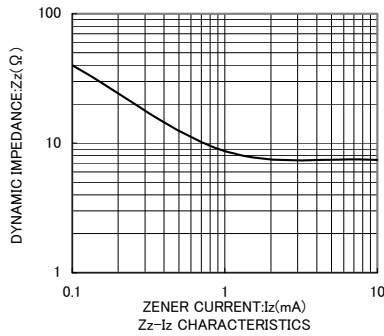
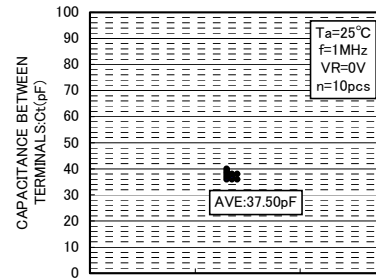
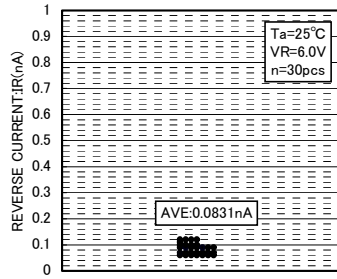
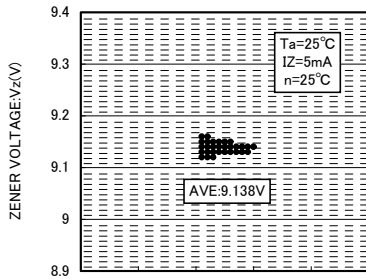
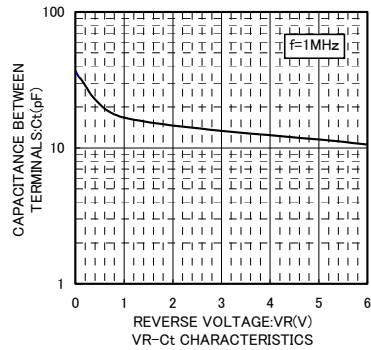
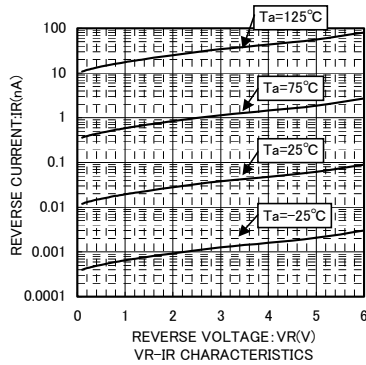
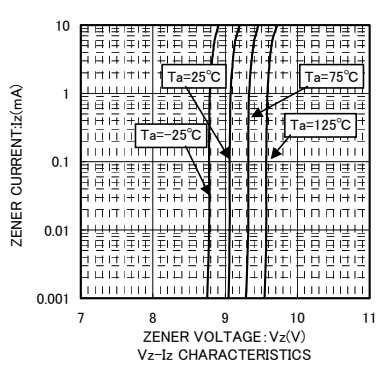


# EDZxxB Series, S-EDZxxB Series

●Electrical characteristic curves (Ta=25°C)

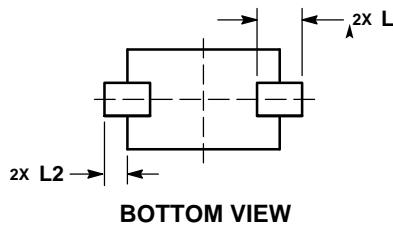
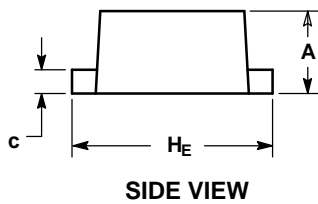
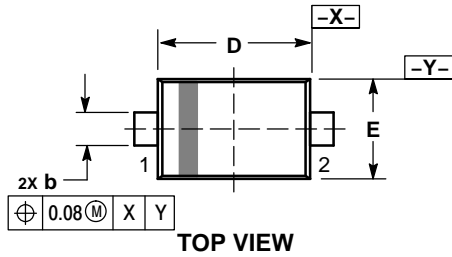


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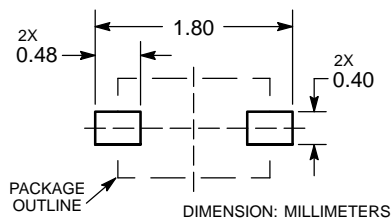


# EDZxxB Series,S-EDZxxB Series

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		
L <sub>2</sub>	0.15	0.20	0.25

