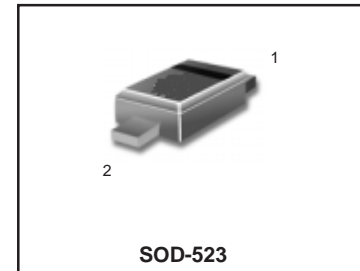


### ●Applications

Constant voltage control

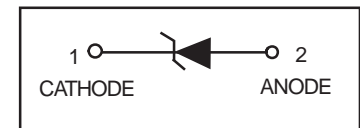
### ●Features

- 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
EDZ2.4BT1G Series	SOD-523	3000/Tape&Reel
EDZ2.4BT5G Series	SOD-523	8000/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

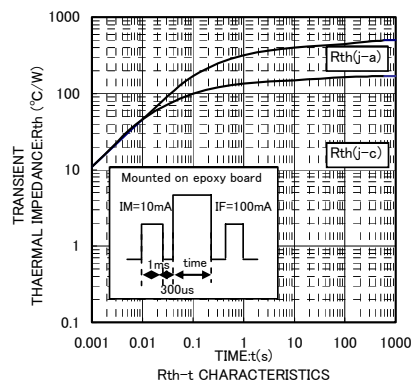
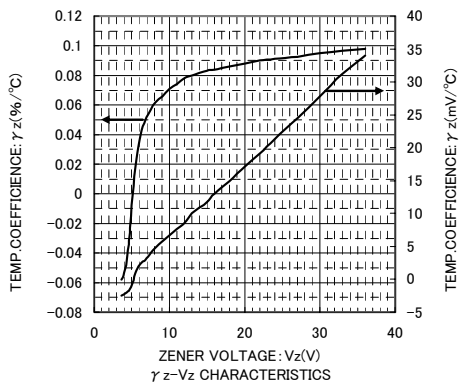
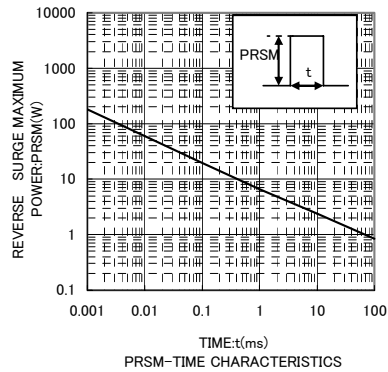
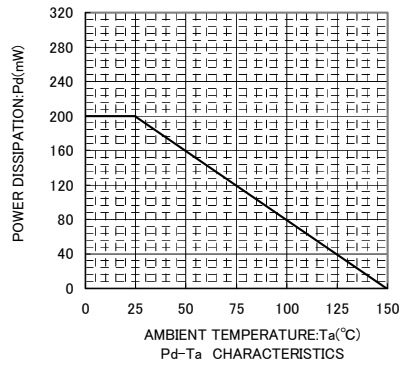
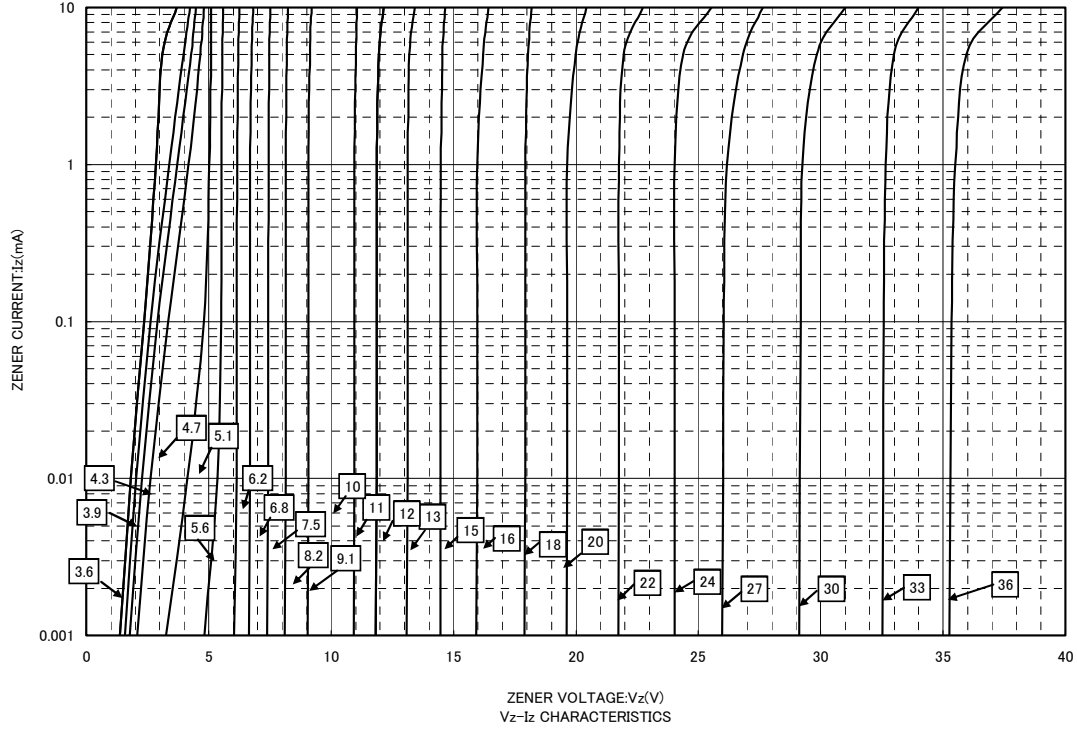
### ● Type No.

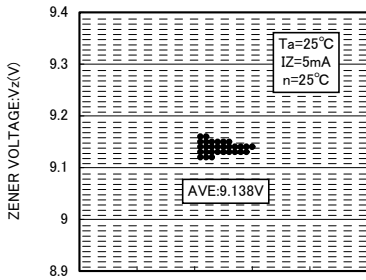
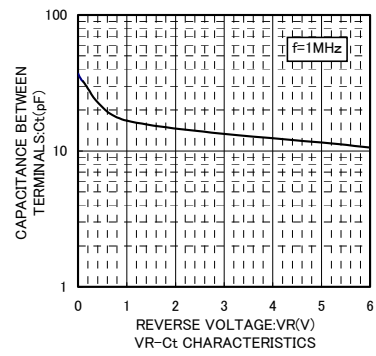
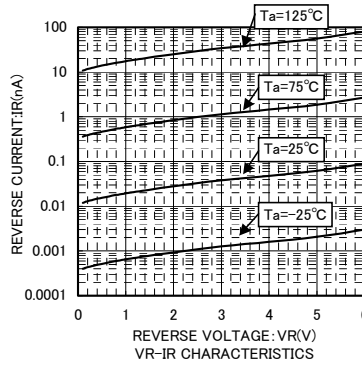
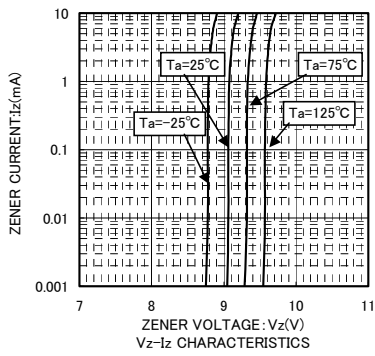
TYPE	TYPE NO.	TYPE	TYPE NO.
EDZ2.4BT1G	22	EDZ10BT1G	05
EDZ2.7BT1G	32	EDZ11BT1G	15
EDZ3.0BT1G	42	EDZ12BT1G	25
EDZ3.3BT1G	52	EDZ13BT1G	35
EDZ3.6BT1G	62	EDZ15BT1G	45
EDZ3.9BT1G	72	EDZ16BT1G	55
EDZ4.3BT1G	82	EDZ18BT1G	65
EDZ4.7BT1G	92	EDZ20BT1G	75
EDZ5.1BT1G	A2	EDZ22BT1G	85
EDZ5.6BT1G	C2	EDZ24BT1G	95
EDZ6.2BT1G	E2	EDZ27BT1G	A 5
EDZ6.8BT1G	F2	EDZ30BT1G	C5
EDZ7.5BT1G	H2	EDZ33BT1G	E5
EDZ8.2BT1G	J2	EDZ36BT1G	F5
EDZ9.1BT1G	L2		

**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)

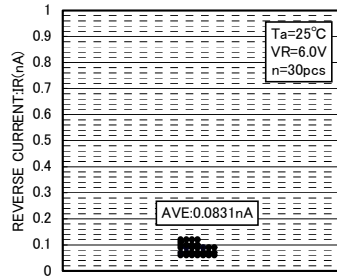
TYP.	Symbol								
	Zener voltage : $V_Z(\text{V})$			Operating resistance : $Z_Z(\Omega)$		Rising operating resistance : $Z_Z(\Omega)$		Reverse current : $I_R(\mu\text{A})$	
	MIN.	MAX.	$I_Z(\text{mA})$	MAX.	$I_Z(\text{mA})$	MAX.	$I_Z(\text{mA})$	MAX.	$V_R(\text{V})$
EDZ2.4BT1G	2.43	2.63	5.0	100	5.0	1000.0	0.5	100	1.0
EDZ2.7BT1G	2.69	2.91	5.0	110	5.0	1000.0	0.5	100	1.0
EDZ3.0BT1G	3.01	3.22	5.0	120	5.0	1000.0	0.5	50	1.0
EDZ3.3BT1G	3.32	3.53	5.0	120	5.0	1000.0	0.5	20	1.0
EDZ3.6BT1G	3.600	3.845	5.0	100	5.0	1000.0	1.0	10.0	1.0
EDZ3.9BT1G	3.890	4.160	5.0	100	5.0	1000.0	1.0	5.0	1.0
EDZ4.3BT1G	4.170	4.430	5.0	100	5.0	1000.0	1.0	5.0	1.0
EDZ4.7BT1G	4.550	4.750	5.0	100	5.0	800.0	0.5	2.0	1.0
EDZ5.1BT1G	4.980	5.200	5.0	80	5.0	500.0	0.5	2.0	1.5
EDZ5.6BT1G	5.490	5.730	5.0	60	5.0	200.0	0.5	1.0	2.5
EDZ6.2BT1G	6.060	6.330	5.0	60	5.0	100.0	0.5	1.0	3.0
EDZ6.8BT1G	6.650	6.930	5.0	40	5.0	60.0	0.5	0.5	3.5
EDZ7.5BT1G	7.280	7.600	5.0	30	5.0	60.0	0.5	0.5	4.0
EDZ8.2BT1G	8.020	8.360	5.0	30	5.0	60.0	0.5	0.5	5.0
EDZ9.1BT1G	8.850	9.230	5.0	30	5.0	60.0	0.5	0.5	6.0
EDZ10BT1G	9.770	10.210	5.0	30	5.0	60.0	0.5	0.1	7.0
EDZ11BT1G	10.760	11.220	5.0	30	5.0	60.0	0.5	0.1	8.0
EDZ12BT1G	11.740	12.240	5.0	30	5.0	80.0	0.5	0.1	9.0
EDZ13BT1G	12.910	13.490	5.0	37	5.0	80.0	0.5	0.1	10.0
EDZ15BT1G	14.340	14.980	5.0	42	5.0	80.0	0.5	0.1	11.0
EDZ16BT1G	15.850	16.510	5.0	50	5.0	80.0	0.5	0.1	12.0
EDZ18BT1G	17.560	18.350	5.0	65	5.0	80.0	0.5	0.1	13.0
EDZ20BT1G	19.520	20.390	5.0	85	5.0	100.0	0.5	0.1	15.0
EDZ22BT1G	21.540	22.470	5.0	100	5.0	100.0	0.5	0.1	17.0
EDZ24BT1G	23.720	24.780	5.0	120	5.0	120.0	0.5	0.1	19.0
EDZ27BT1G	26.190	27.530	2.0	150	2.0	150.0	0.5	0.1	21.0
EDZ30BT1G	29.190	30.690	2.0	200	2.0	200.0	0.5	0.1	23.0
EDZ33BT1G	32.150	33.790	2.0	250	2.0	250.0	0.5	0.1	25.0
EDZ36BT1G	35.070	36.870	2.0	300	2.0	300.0	0.5	0.1	27.0

● **Electrical characteristic curves (Ta=25°C)**

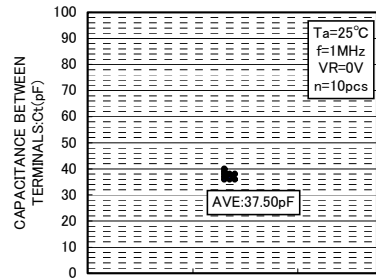




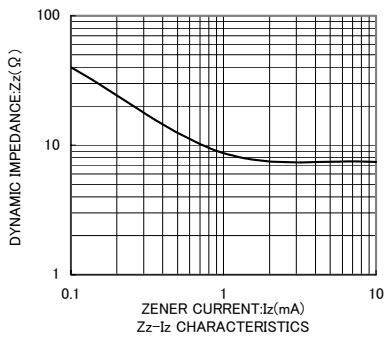
Vz DISPERSION MAP



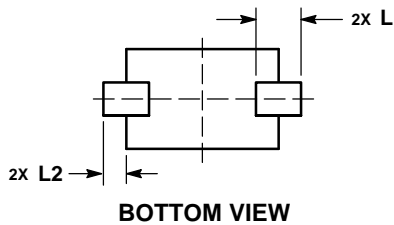
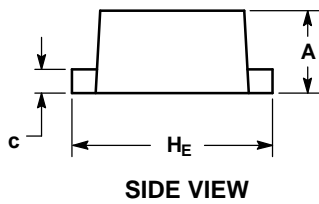
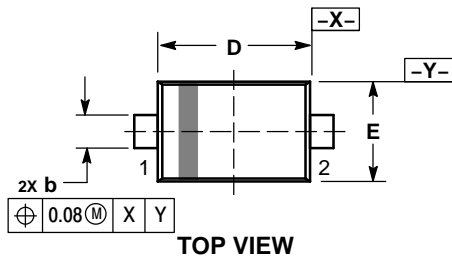
IR DISPERSION MAP



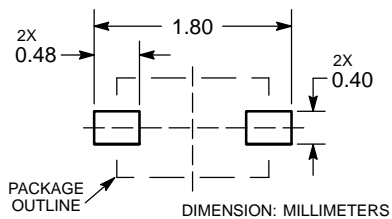
Ct DISPERSION MAP



**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