

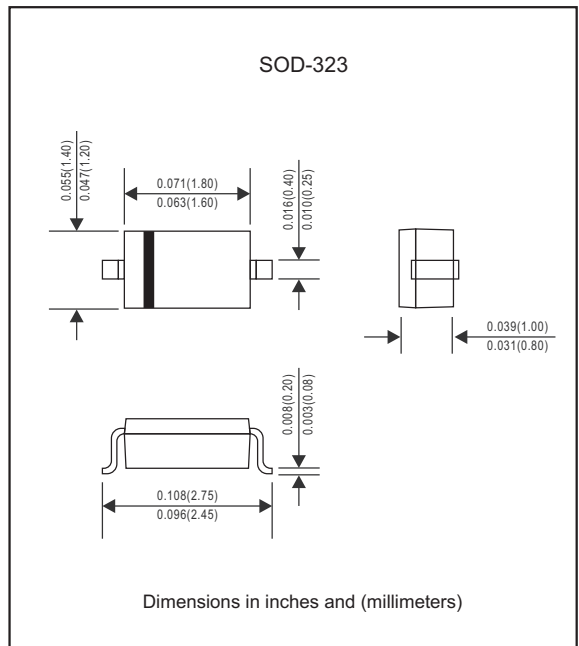
### Features

- Silicon epitaxial planar chip structure.
- Wide zener reverse voltage range 2.0V to 75V.
- Small package size for high density applications.
- Ideally suited for automated assembly processes.
- Pb-free package is available
- We declare that the material of product compliance with RoHS requirements.
- Compliant to Halogen-free

### Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, SOD-323
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any

### Package outline



### Absolute Maximum Ratings And Characteristics ( Ta = 25 °C )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{tot}$	300	mW
Forward Voltage at $I_F = 10$ mA	$V_F$	0.9	V
Typical thermal resistance junction to ambient <sup>(1)</sup>	$R_{\theta JA}$	417	°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	°C

(1) Thermal resistance from junction to ambient at P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper areas pads.

### Characteristics at Ta = 25°C

Type	Marking	Zener Voltage Range <sup>(1)</sup>			I <sub>ZT</sub> (mA)	Dynamic Impedance Z <sub>ZT</sub> ( at I <sub>ZT</sub> ) Max (Ω)	Reverse Current	
		V <sub>ZT</sub> ( at I <sub>ZT</sub> )					I <sub>R</sub> Max ( μA )	at V <sub>R</sub> ( V )
		Min ( V )	Nom ( V )	Max ( V )				
BZX384B2V0	0B	1.96	2.0	2.04	5	100	120	0.5
BZX384B2V2	0C	2.16	2.2	2.24	5	100	120	0.7
BZX384B2V4	C1	2.35	2.4	2.45	5	100	120	1
BZX384B2V7	D1	2.65	2.7	2.75	5	110	120	1
BZX384B3V0	E1	2.94	3.0	3.06	5	120	50	1
BZX384B3V3	F1	3.23	3.3	3.37	5	130	20	1
BZX384B3V6	H1	3.53	3.6	3.67	5	130	10	1
BZX384B3V9	J1	3.82	3.9	3.98	5	130	5	1
BZX384B4V3	K1	4.21	4.3	4.39	5	130	5	1
BZX384B4V7	M1	4.61	4.7	4.79	5	130	2	1
BZX384B5V1	N1	5	5.1	5.2	5	130	2	1.5
BZX384B5V6	P1	5.49	5.6	5.71	5	80	1	2.5
BZX384B6V2	R1	6.08	6.2	6.32	5	50	1	3
BZX384B6V8	X1	6.66	6.8	6.94	5	30	0.5	3.5
BZX384B7V5	Y1	7.35	7.5	7.65	5	30	0.5	4
BZX384B8V2	Z1	8.04	8.2	8.36	5	30	0.5	5
BZX384B9V1	A2	8.92	9.1	9.28	5	30	0.5	6
BZX384B10	B2	9.8	10	10.2	5	30	0.1	7
BZX384B11	C2	10.78	11	11.22	5	30	0.1	8
BZX384B12	D2	11.76	12	12.24	5	35	0.1	9
BZX384B13	E2	12.74	13	13.26	5	35	0.1	10
BZX384B15	F2	14.7	15	15.3	5	40	0.1	11
BZX384B16	H2	15.68	16	16.32	5	40	0.1	12
BZX384B18	J2	17.64	18	18.36	5	45	0.1	13
BZX384B20	K2	19.6	20	20.4	5	50	0.1	15
BZX384B22	M2	21.56	22	22.44	5	55	0.1	17
BZX384B24	N2	23.52	24	24.48	5	60	0.1	19
BZX384B27	P2	26.46	27	27.54	2	70	0.1	21
BZX384B30	R2	29.4	30	30.60	2	80	0.1	23
BZX384B33	X2	32.34	33	33.66	2	80	0.1	25
BZX384B36	Y2	35.28	36	36.72	2	90	0.1	27
BZX384B39	Z2	38.22	39	39.78	2	100	0.1	30
BZX384B43	A3	42.14	43	43.86	2	130	0.1	33
BZX384B47	B3	46.06	47	47.94	2	150	0.1	36
BZX384B51	C3	49.98	51	52.02	2	180	0.1	39
BZX384B56	D3	54.88	56	57.12	2	200	0.1	43
BZX384B62	E3	60.76	62	63.24	2	215	0.1	47
BZX384B68	F3	66.64	68	69.36	2	240	0.1	52
BZX384B75	H3	73.5	75	76.5	2	265	0.1	56

( 1 ) V<sub>ZT</sub> is tested with pulses (20 ms)

**Rating and characteristic curves**

Fig.1 Maximum Continuous Power Derating

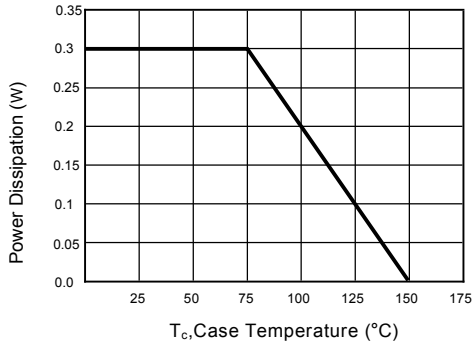
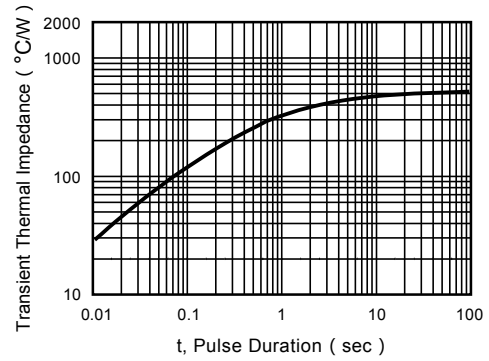


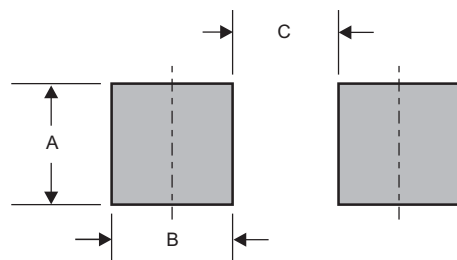
Fig.2 Typical Transient Thermal Impedance



**Pinning information**

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

**Suggested solder pad layout**



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-323	0.033 (0.83)	0.025 (0.63)	0.063 (1.60)

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