Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

BZX85C Series

1.3 Watt
Zener Diode
2.7 to 75 Volts

Features

- Low noise and Low reverse current
- Very high stability
- Very sharp reverse characteristic
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -65℃ to +175℃
- Storage Temperature: -65℃ to +175℃
- DC Power Dissipation: 1.3 Watt @ L=4mm $T_L \leqq 25℃$
- Forward Voltage @ 200mA: 1.0 Volts
- Thermal Resistance: 110K/W Junction to Ambient

Figure1. Power Dissipation vs. Ambient Temperature

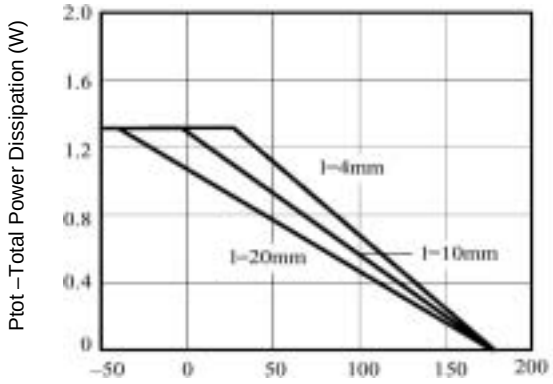
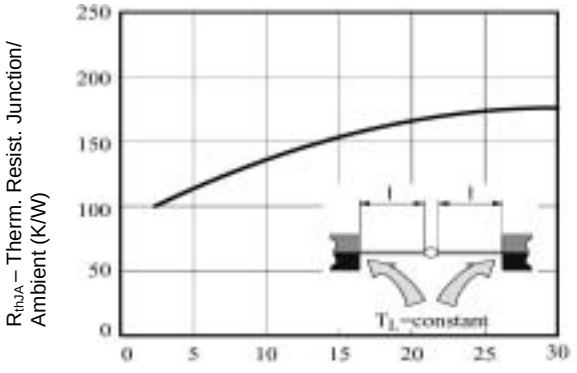
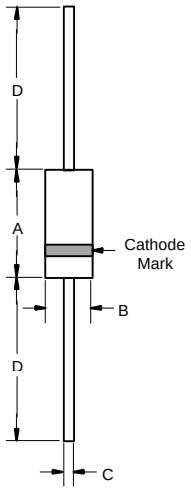


Figure2. Thermal Resistance vs. Lead Length



DO-41G



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000	---	25.40	---	

Note: 1. Lead in Glass Solder Exemption Applied, see EU Directive Annex 5.

Type	V_{Znom}	I_{ZT} for V_{ZT} and		r_{zjT}	r_{zjK} at I_{ZK}		I_R at V_R		TK_{VZ}
BZX85C	V	mA	V[1)]	Ω	Ω	mA	μ A	V	%/K
2V7	2.7	80	2.5~2.9	<20	<400	1	<150	1	-0.09~-0.06
3V0	3.0	80	2.8~3.2	<20	<400	1	<100	1	-0.08~-0.05
3V3	3.3	80	3.1~3.5	<20	<400	1	<40	1	-0.08~-0.05
3V6	3.6	60	3.4~3.8	<20	<500	1	<20	1	-0.08~-0.05
3V9	3.9	60	3.7~4.1	<15	<500	1	<10	1	-0.08~-0.05
4V3	4.3	50	4.0~4.6	<13	<500	1	<3	1	-0.06~-0.03
4V7	4.7	45	4.4~5.0	<13	<500	1	<3	1	-0.05~+0.02
5V1	5.1	45	4.8~5.4	<10	<500	1	<1	1	-0.02~+0.02
5V6	5.6	45	5.2~6.0	<7	<400	1	<1	1	-0.05~+0.05
6V2	6.2	35	5.8~6.6	<4	<300	1	<1	2	0.03~0.06
6V8	6.8	35	6.4~7.2	<3.5	<300	1	<1	3	0.03~0.07
7V5	7.5	35	7.0~7.9	<3	<200	0.5	<1	5	0.03~0.07
8V2	8.2	25	7.7~8.7	<5	<200	0.5	<1	6.2	0.03~0.08
9V1	9.1	25	8.5~9.6	<5	<200	0.5	<1	6.8	0.03~0.09
10	10	25	9.4~10.6	<7	<200	0.5	<0.5	7.5	0.03~0.1
11	11	20	10.4~11.6	<8	<300	0.5	<0.5	8.2	0.03~0.11
12	12	20	11.4~12.7	<9	<350	0.5	<0.5	9.1	0.03~0.11
13	13	20	12.4~14.1	<10	<400	0.5	<0.5	10	0.03~0.11
15	15	15	13.8~15.6	<15	<500	0.5	<0.5	11	0.03~0.11
16	16	15	15.3~17.1	<15	<500	0.5	<0.5	12	0.03~0.11
18	18	15	16.8~19.1	<20	<500	0.5	<0.5	13	0.03~0.11
20	20	10	18.8~21.2	<24	<600	0.5	<0.5	15	0.03~0.11
22	22	10	20.8~23.3	<25	<600	0.5	<0.5	16	0.04~0.12
24	24	10	22.8~25.6	<25	<600	0.5	<0.5	18	0.04~0.12
27	27	8	25.1~28.9	<30	<750	0.25	<0.5	20	0.04~0.12
30	30	8	28~32	<30	<1000	0.25	<0.5	22	0.04~0.12
33	33	8	31~35	<35	<1000	0.25	<0.5	24	0.04~0.12
36	36	8	34~38	<40	<1000	0.25	<0.5	27	0.04~0.12
39	39	6	37~41	<50	<1000	0.25	<0.5	30	0.04~0.12
43	43	6	40~46	<50	<1000	0.25	<0.5	33	0.04~0.12
47	47	4	44~50	<90	<1500	0.25	<0.5	36	0.04~0.12
51	51	4	48~54	<115	<1500	0.25	<0.5	39	0.04~0.12
56	56	4	52~60	<120	<2000	0.25	<0.5	43	0.04~0.12
62	62	4	58~66	<125	<2000	0.25	<0.5	47	0.04~0.12
68	68	4	64~72	<130	<2000	0.25	<0.5	51	0.04~0.12
75	75	4	70~79	<135	<2000	0.25	<0.5	56	0.04~0.12

[1)] Tighter tolerances available request:

BZX85B… ±2% of V_{Znom}

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 5Kpcs/Reel
(Part Number)-AP	Ammo Packing;2.5Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Box