

BZX85C2V7 THRU BZX85C75

ZENER DIODES

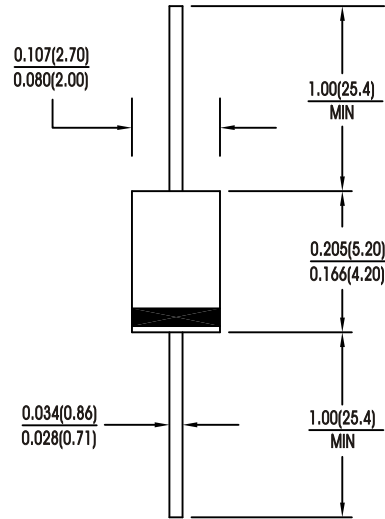
FEATURES:

- Standard Zener voltage tolerance is $\pm 5\%$ AND SUFFIX "BZX84C" FOR $\pm 5\%$
- SILICON PLANAR POWER ZENER DIODE
- For use in stabilizing and clipping circuits with high power rating

MECHANICAL DATA

Case: DO-41 Glass Cases
 Weight: 0.35grams(approx)

DO-41



Dimensions in inches and (millimeters)

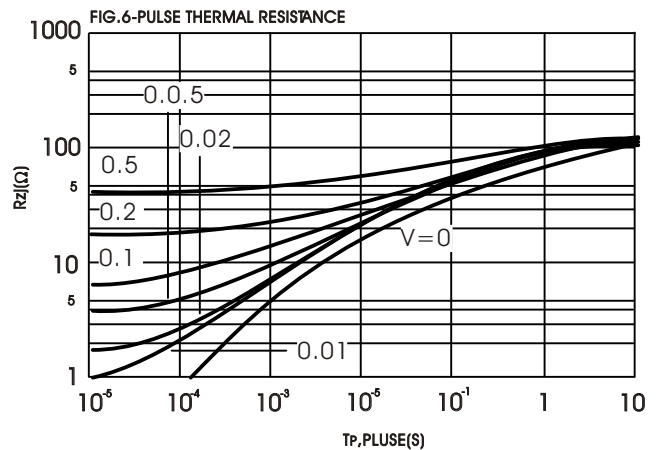
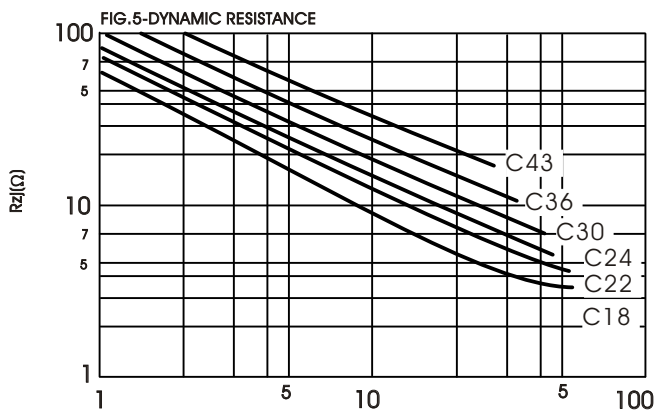
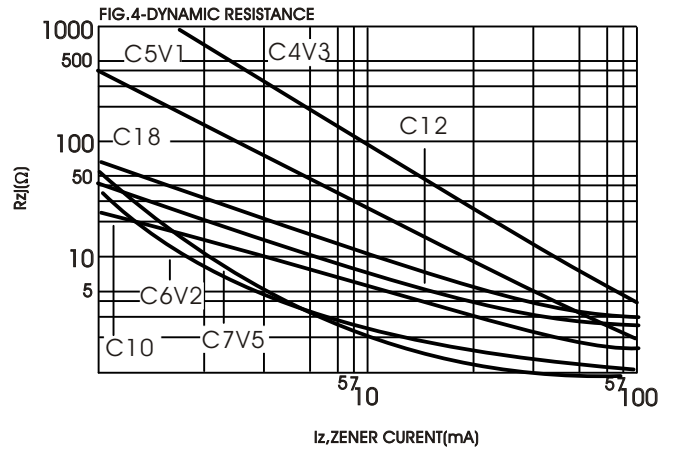
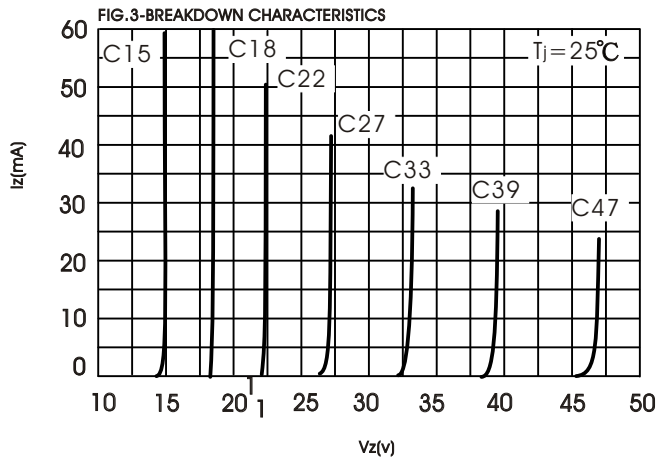
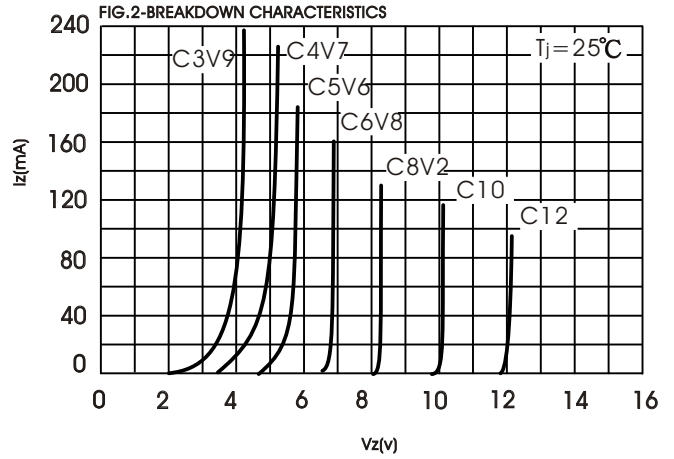
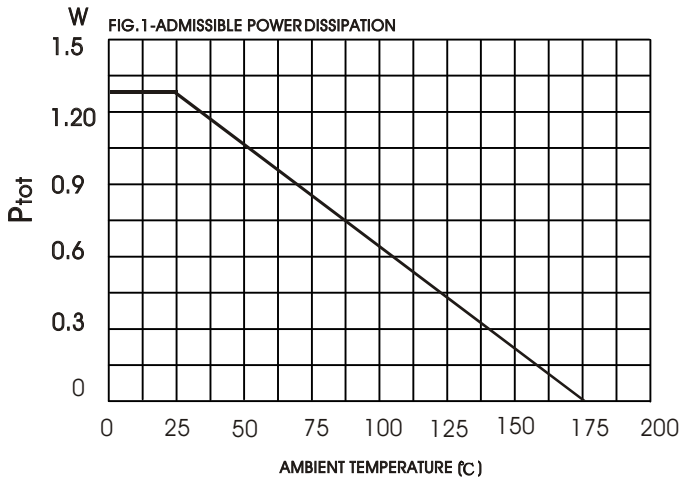
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

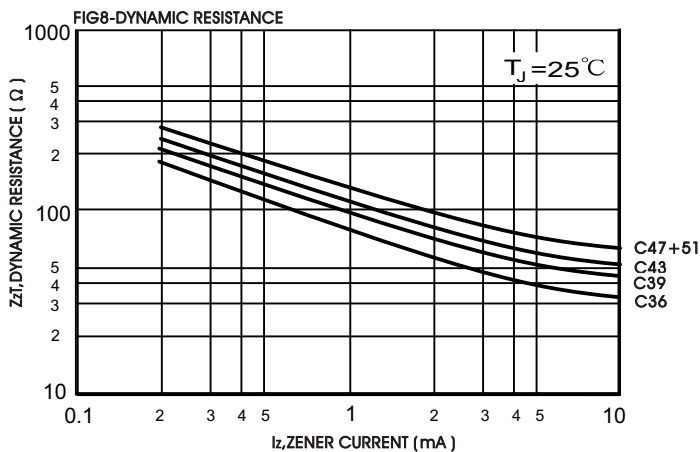
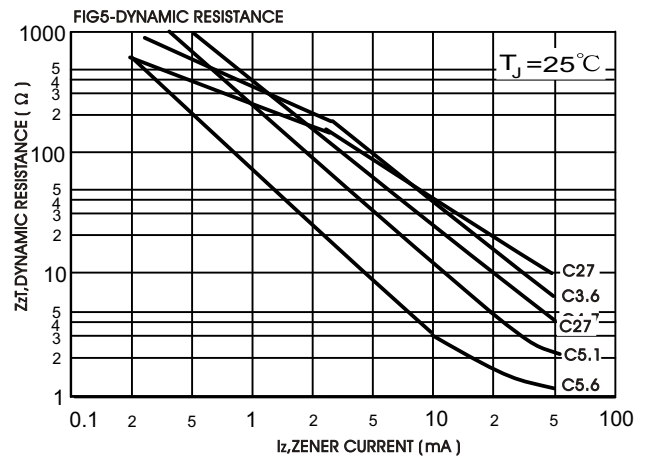
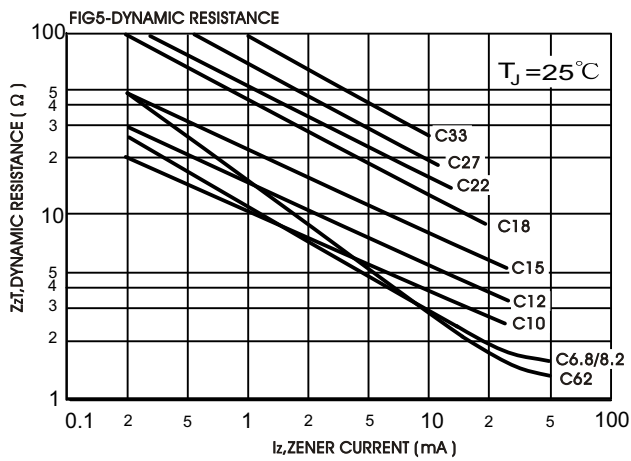
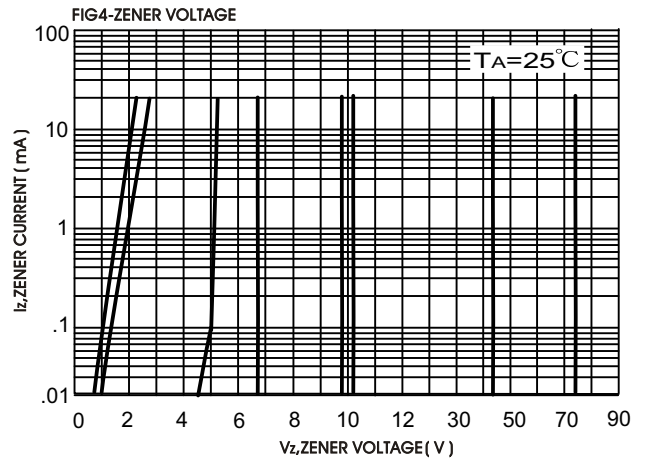
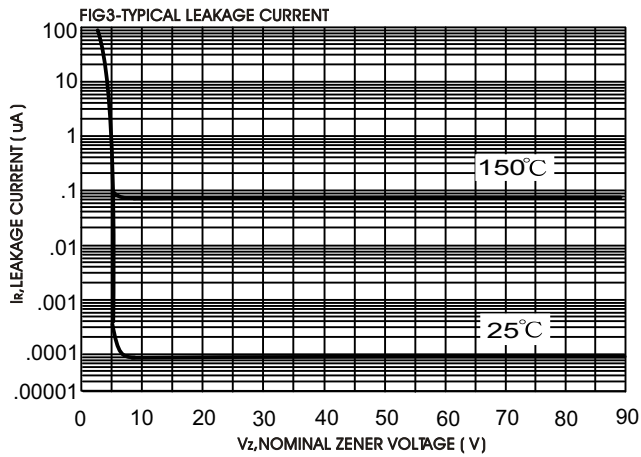
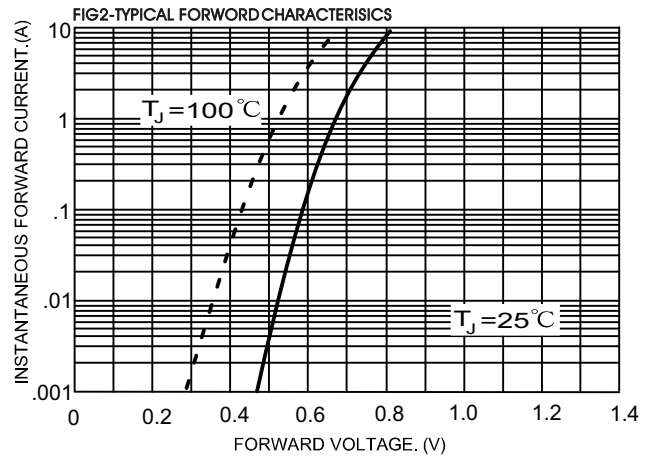
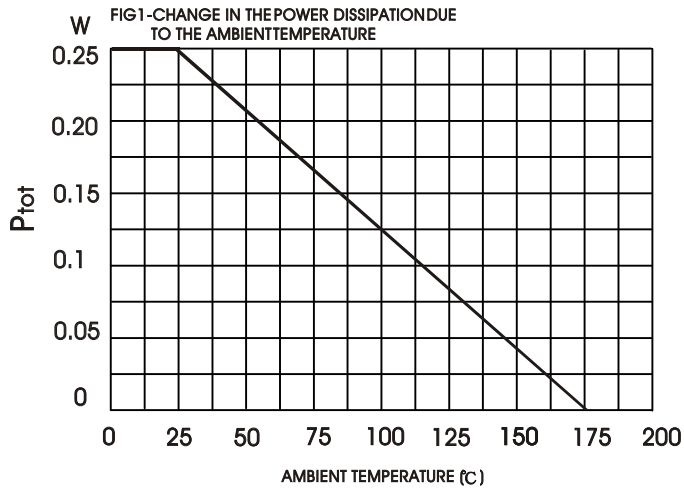
Characteristic	Symbol	Value	Units
Power Dissipation at Tamb=25 °C	P _{tot}	1.3 ¹⁾	W
Thermal Resistance Junction to Ambient Air	R _{thJ-A}	110 ¹⁾	K/W
Maximum instantaneous forward voltage drop at I _F =200 mADC	V _F	1.5	Volts
Junction temperature	T _J	175	°C
Storage temperature range	T _{stg}	-65 to +175	°C

1) Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

RATINGS AND CHARACTERISTIC BZX85C2V7 THRU BZX85C75



RATINGS AND CHARACTERISTIC BZX85C2V7 THRU BZX85C7V5



RATINGS AND CHARACTERISTIC BZX85C2V7 THRU BZX85C75

TABLE 1

Device Type	Nominal Zener Voltage Vz at IzT1	Test Current IzT1/ f=1KHZ	Dynamic Resistance R _{zj} at IzT1	Dynamic Resistance R _{zj} at IzT2	Test Current IzT2	Maximum Reverse Leakage Current		Vz	Temp. Coeff. Of Zener current at Iz= IzT1 Vz%/K
						IR	At VR		
	Volts	mA	Ω	Ω	mA	μA	Volts	Volts	mA
BZX85C2V7	2.5-2.9	80	<20	<400	1.0	150	1.0	2.7	-0.09~-0.06
BZX85C3V0	2.8-3.2	80	<20	<400	1.0	100	1.0	3.0	-0.08~-0.05
BZX85C3V3	3.1-3.5	80	<20	<400	1.0	40	1.0	3.3	-0.08~-0.05
BZX85C3V6	3.4-3.8	60	<60	<500	1.0	20	1.0	3.6	-0.08~-0.05
BZX85C3V9	3.7-4.1	60	<60	<500	1.0	10	1.0	3.9	-0.08~-0.05
BZX85C4V3	4.0-4.6	50	<50	<500	1.0	3.0	1.0	4.3	-0.06~-0.03
BZX85C4V7	4.4-5.0	45	<45	<600	1.0	3.0	1.0	4.7	-0.05~+0.02
BZX85C5V1	4.8-5.4	45	<45	<500	1.0	1.0	1.0	5.1	-0.01~+0.04
BZX85C5V6	5.2-6.0	45	<45	<400	1.0	1.0	1.0	5.6	-0.05~+0.05
BZX85C6V2	5.8-6.6	35	<35	<300	1.0	1.0	2.0	6.2	+0.03~+0.06
BZX85C6V8	6.4-7.2	35	<35	<300	1.0	1.0	3.0	6.8	+0.03~+0.07
BZX85C7V5	7.0-7.9	35	<35	<200	0.5	1.0	5.0	7.5	+0.03~+0.07
BZX85C8V2	7.7-8.7	25	<25	<200	0.5	1.0	6.2	8.2	+0.03~+0.08
BZX85C9V1	8.5-9.6	25	<25	<200	0.5	1.0	6.8	9.1	+0.03~+0.09
BZX85C10	9.4-10.6	25	<25	<200	0.5	0.5	7.5	10	+0.03~+0.10
BZX85C11	10.4-11.6	20	<20	<300	0.5	0.5	8.2	11	+0.03~+0.11
BZX85C12	11.4-12.7	20	<20	<300	0.5	0.5	9.1	12	+0.03~+0.11
BZX85C13	12.4-14.1	20	<20	<4000	0.5	0.5	10	13	+0.03~+0.11
BZX85C15	13.8-15.6	15	<15	<500	0.5	0.5	11	15	+0.03~+0.11
BZX85C16	15.3-17.1	15	<15	<500	0.5	0.5	12	16	+0.04~+0.12
BZX85C18	16.8-19.1	15	<20	<500	0.5	0.5	13	18	+0.04~+0.12
BZX85C20	18.8-21.2	10	<24	<600	0.5	0.5	15	20	+0.04~+0.12
BZX85C22	20.8-23.3	10	<25	<600	0.5	0.5	16	22	+0.04~+0.12
BZX85C24	22.8-25.6	10	<25	<600	0.5	0.5	18	24	+0.04~+0.12
BZX85C27	25.1-28.9	8	<30	<750	0.25	0.5	20	27	+0.04~+0.12
BZX85C30	28-32	8	<30	<1000	0.25	0.5	22	30	+0.04~+0.12
BZX85C33	31-35	8	<35	<1000	0.25	0.5	24	33	+0.04~+0.12
BZX85C36	34-38	8	<40	<1000	0.25	0.5	27	36	+0.04~+0.12
BZX85C39	37-41	6	<50	<1000	0.25	0.5	30	39	+0.04~+0.12
BZX85C43	40-46	6	<50	<1000	0.25	0.5	33	43	+0.04~+0.12
BZX85C47	44-50	4	<90	<1500	0.25	0.5	36	47	+0.04~+0.12
BZX85C51	48-54	4	<115	<1500	0.25	0.5	39	51	+0.04~+0.12
BZX85C56	52-60	4	<120	<2000	0.25	0.5	43	56	+0.04~+0.12
BZX85C62	58-66	4	<125	<2000	0.25	0.5	47	62	+0.04~+0.12
BZX85C68	64-72	4	<130	<2000	0.25	0.5	51	68	+0.04~+0.12
BZX85C75	70-79	4	<135	<2000	0.25	0.5	56	75	+0.04~+0.12