FAIF SEMICO Absolu		TOR®	BZ		3V3		ZX8	5C100		rance = 5%	Zeners BZX85C3V3 -
Symbol	1		Parameter	-			lue	Units			Π
P _D		ower Dissipation $TL \le 50^{\circ}C$, Lead Length = 3/8"					.0	W	- (BZX85C100
		rate above 50°C				6	.67	mW/°C	-		ŭ
T _J , T _{STG}	Operating	Operating and Storage Temperature Range				-65 to	o +200	°C	· •		- Ç
									-	I Glass case D DENOTES CATHODE	
Electric	cal Cha		eristics er Voltage (less othe		d Impedan	ice	Leaka	ge Current	
Devie			Ι _z	Zz	@ I _Z Z _{ZK} @ I _{ZK}		I _R @ V _R				
		Min.	Max.	mA	(Ω)	(Ω)	(mA)	μ Α Μax.	Volts	
BZX85C3	3V3	3.1	3.5	80	2	20	400	1	60	1	
BZX85C3	8V6	3.4	3.8	60	1	5	500	1	30	1	
BZX85C3	-	3.7	4.1	60	1	5	500	1	5	1	
BZX85C4	-	4.0	4.6	50	1	3	500	1	3	1	l
BZX85C4	IV7	4.4	5	45	1	3	600	1	3	1.5	
BZX85C5	5V1	4.8	5.4	45	1	0	500	1	1	2	
BZX85C5	5V6	5.2	6	45		7	400	1	1	2	l
D71/0500	N/0	F 0		05	1			1 4	1 4		

300

300

200

200

200

200

300

350

400

500

500

500

600

600

600

750

1000

1000

1000

1000

1000

1500

1500

1

1

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.25

0.25

0.25

0.25

0.25

0.25

0.25

0.25

1

1

1

1

1

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

©2004 Fairchild Semiconductor Corporation

BZX85C6V2

BZX85C6V8

BZX85C7V5

BZX85C8V2

BZX85C9V1

BZX85C10

BZX85C11

BZX85C12

BZX85C13

BZX85C15

BZX85C16

BZX85C18

BZX85C20

BZX85C22

BZX85C24

BZX85C27

BZX85C30

BZX85C33

BZX85C36

BZX85C39

BZX85C43

BZX85C47

BZX85C51

5.8

6.4

7.0

7.7

8.5

9.4

10.4

11.4

12.4

13.8

15.3

16.8

18.8

20.8

22.8

25.1

28

31

34

37

40

44

48

6.6

7.2

7.9

8.7

9.6

10.6

11.6

12.7

14.1

15.6

17.1

19.1

21.2

23.3

25.6

28.9

32

35

38

41

46

50

54

35

35

35

25

25

25

20

20

20

15

15

15

10

10

10

8

8

8

8

6

6

4

4

4

3.5

3

5

5

7

8

9

10

15

15

20

24

25

25

30

30

35

40

45

50

90

115

BZX85C3V3 - BZX85C100, Rev. E1

3

4

4.5

5

6.5

7

7.7

8.4

9.1

10.5

11

12.5

14

15.5

17

19

21

23

25

27

30

33

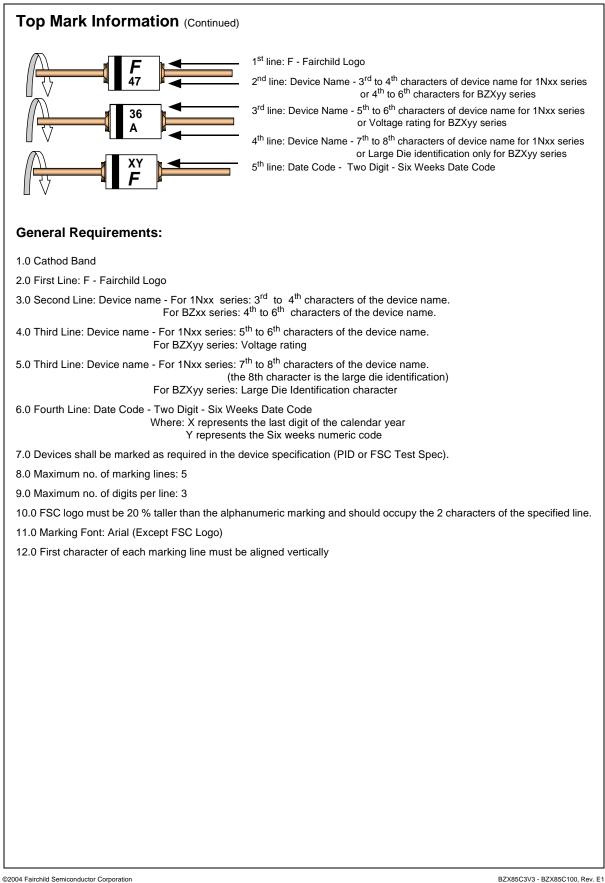
36

Zeners
BZX85C3V3
ř
BZX85C100

	Zen	er Voltage (N	lote 1)	Zene	er Impedai	Leakage Current		
Device	V _Z (Volts)		Ι _Ζ	Z _Z @ I _Z	Z _{ZK} @ I _{ZK}		I _R @ V _R	
	Min.	Max.	mA	(Ω)	(Ω)	(mA)	μ Α Μax.	Volts
BZX85C56	52	60	4	120	2000	0.25	0.5	39
BZX85C62	58	66	4	125	2000	0.25	0.5	43
BZX85C68	64	72	4	130	2000	0.25	0.5	47
BZX85C75	70	80	4	150	2000	0.25	0.5	51
BZX85C82	77	87	2.7	200	3000	0.25	0.5	56
BZX85C91	85	96	2.7	250	3000	0.25	0.5	62
BZX85C100	96	106	2.7	350	3000	0.25	0.5	68
V _F Forward Voltage = 1.2V Max @ I _F = 200mA								

Notes: 1. Zener Voltage (V_2) The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T_L) at 30°C ± 1°C and 3/8" lead length.

©2004 Fairchild Semiconductor Corporation



Zeners BZX85C3V3 - BZX85C100

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

	FACT Quiet Series TM FAST [®] FASTr TM FPS TM FRFET TM GlobalOptoisolator TM GTO TM HiSeC TM PC^{TM} <i>i-Lo</i> TM d. Around the world. TM	MICROCOUPLER TM MicroFET TM MicroPak TM MICROWIRE TM MSX TM MSXPro TM OCX TM OCXPro TM	POP [™] Power247 [™] PowerSaver [™] PowerTrench [®] QFET [®] QS [™] QT Optoelectronics [™] Quiet Series [™] RapidConfigure [™] RapidConnect [™]	SPM TM Stealth TM SuperFET TM SuperSOT TM -3 SuperSOT TM -6 SuperSOT TM -8 SyncFET TM TinyLogic [®] TINYOPTO TM TruTranslation TM UHC TM
Across the board The Power Franc Programmable A	chise®	OCXPro™ OPTOLOGIC [®] OPTOPLANAR™	RapidConnect [™] SILENT SWITCHER [®] SMART START [™]	UHC™ UltraFET [®] VCX™

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user. 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.
	•	Rev. 11