

# Zeners BZX85C3V3 - BZX85C100

# Absolute Maximum Ratings \* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	1.0	W
	@ TL ≤ 50°C, Lead Length = 3/8"		
	Derate above 50°C	6.67	mW/°C
T <sub>J</sub> , T <sub>STG</sub>	Operating and Storage Temperature Range	-65 to +200	°C

<sup>\*</sup> These ratings are limiting values above which the serviceability of the diode may be impaired.



## $\textbf{Electrical Characteristics} \quad \textbf{T}_{A} = 25\,^{\circ}\text{C unless otherwise noted}$

Device         V₂ (Volts)         I₂ (Ω)         Z₂ @ I₂ (Ω)         Z₂ ( ℝ) I₂ (Ω)         I ( ℝ) (ℝ) (ℝ)         Volts           BZX85C3V3         3.1         3.5         80         20         400         1         60         1           BZX85C3V9         3.7         4.1         60         15         500         1         5         1           BZX85C4V3         4.0         4.6         50         13         500         1         3         1           BZX85C5V1         4.8         5.4         45         13         600         1         3         1.5           BZX85C6V2         5.8         6.6         35         4         300         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         4           BZX85C6V2         7.7         8.7         25         5         200         0.5         1         4.5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1 <td< th=""><th></th><th colspan="3">Zener Voltage (Note 1) Zener Impedance</th><th>e</th><th colspan="3">Leakage Current</th></td<>		Zener Voltage (Note 1) Zener Impedance			e	Leakage Current			
BZX85C3V3         3.1         3.5         80         20         400         1         60         1           BZX85C3V6         3.4         3.8         60         15         500         1         30         1           BZX85C3V9         3.7         4.1         60         15         500         1         3         1           BZX85C4V7         4.4         5         45         13         600         1         3         1           BZX85C5V1         4.8         5.4         45         10         500         1         1         2           BZX85C6V2         5.2         6         45         7         400         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         3           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4.5           BZX85C9V5         7.0         7.9         35         3         200         0.5         1         4.5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1 <t< th=""><th>Device</th><th colspan="2">ice <math>V_Z</math> (Volts) <math>I_Z</math> <math>Z_Z</math> @ <math>I_Z</math> <math>Z_{ZK}</math> @ <math>I_{ZK}</math></th><th>@ I<sub>ZK</sub></th><th colspan="2">I<sub>R</sub> @ V<sub>R</sub></th></t<>	Device	ice $V_Z$ (Volts) $I_Z$ $Z_Z$ @ $I_Z$ $Z_{ZK}$ @ $I_{ZK}$		@ I <sub>ZK</sub>	I <sub>R</sub> @ V <sub>R</sub>				
BZX85C3V6         3.4         3.8         60         15         500         1         30         1           BZX85C3V9         3.7         4.1         60         15         500         1         5         1           BZX85C4V3         4.0         4.6         50         13         500         1         3         1           BZX85C6V7         4.4         5         45         13         600         1         3         1.5           BZX85C5V1         4.8         5.4         45         10         500         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         2           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4.5           BZX85C7V5         7.0         7.9         35         3         200         0.5         1         4.5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5		Min.	Max.	mA	<b>(</b> Ω <b>)</b>	<b>(</b> Ω <b>)</b>	(mA)	μ <b>Α Max.</b>	Volts
BZX85C3V9         3.7         4.1         60         15         500         1         5         1           BZX85C4V3         4.0         4.6         50         13         500         1         3         1           BZX85C4V7         4.4         5         45         13         600         1         3         1.5           BZX85C5V1         4.8         5.4         45         10         500         1         1         2           BZX85C5V6         5.2         6         45         7         400         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         3           BZX85C6V2         5.8         6.6         35         3.5         300         1         1         4.5           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4.5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5	BZX85C3V3	3.1	3.5	80	20	400	1	60	1
BZX85C4V3         4.0         4.6         50         13         500         1         3         1           BZX85C4V7         4.4         5         45         13         600         1         3         1.5           BZX85C5V1         4.8         5.4         45         10         500         1         1         2           BZX85C6V2         5.2         6         45         7         400         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         4           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         4.5           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         5           BZX85C10         9.4         10.6         25         5         200         0.5         1         6.5           BZX85C11         10.4         11.6         20         8         300         0.5         0.5	BZX85C3V6	3.4	3.8	60		500	1	30	1
BZX85C4V7         4.4         5         45         13         600         1         3         1.5           BZX85C5V1         4.8         5.4         45         10         500         1         1         2           BZX85C6V6         5.2         6         45         7         400         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         3           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4           BZX85C7V5         7.0         7.9         35         3         200         0.5         1         4.5           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7.7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5<	BZX85C3V9	3.7	4.1	60		500	1	5	1
BZX85C5V1         4.8         5.4         45         10         500         1         1         2           BZX85C5V6         5.2         6         45         7         400         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         3           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4           BZX85C7V5         7.0         7.9         35         3.5         300         1         1         4.5           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C13         12.4         14.1         20         10         400         0.5         0.5<	BZX85C4V3	4.0	4.6	50	13	500	1		1
BZX85C5V6         5.2         6         45         7         400         1         1         2           BZX85C6V2         5.8         6.6         35         4         300         1         1         3           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         4.5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         7.7           BZX85C13         12.4         14.1         12.0         10         400         0.5         0.5         9.1           BZX85C16         15.3         17.1         15         15         500         0.5	BZX85C4V7	4.4	5	45	13	600	1	3	1.5
BZX85C6V2         5.8         6.6         35         4         300         1         1         3           BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4           BZX85C7V5         7.0         7.9         35         3         200         0.5         1         4.5           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         6.5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         9.1           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5 <td>BZX85C5V1</td> <td>4.8</td> <td>5.4</td> <td>45</td> <td>10</td> <td>500</td> <td>1</td> <td>1</td> <td></td>	BZX85C5V1	4.8	5.4	45	10	500	1	1	
BZX85C6V8         6.4         7.2         35         3.5         300         1         1         4           BZX85C7V5         7.0         7.9         35         3         200         0.5         1         4.5           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         7.7           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C18         16.8         19.1         15         20         500	BZX85C5V6	5.2	6	45	7	400	1	1	2
BZX85C7V5         7.0         7.9         35         3         200         0.5         1         4.5           BZX85C8V2         7.7         8.7         25         5         200         0.5         1         5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         7.7           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         9.1           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500	BZX85C6V2	5.8	6.6	35	4	300	1	1	3
BZX85C8V2         7.7         8.7         25         5         200         0.5         1         5           BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         7.7           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C24         22.8         25.6         10         25         600	BZX85C6V8	6.4	7.2	35	3.5	300	1	1	4
BZX85C9V1         8.5         9.6         25         5         200         0.5         1         6.5           BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         8.4           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C28         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600 <td>BZX85C7V5</td> <td>7.0</td> <td>7.9</td> <td>35</td> <td>3</td> <td>200</td> <td>0.5</td> <td>1</td> <td>4.5</td>	BZX85C7V5	7.0	7.9	35	3	200	0.5	1	4.5
BZX85C10         9.4         10.6         25         7         200         0.5         0.5         7           BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         8.4           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         6	BZX85C8V2			25		200	0.5	1	
BZX85C11         10.4         11.6         20         8         300         0.5         0.5         7.7           BZX85C12         11.4         12.7         20         9         350         0.5         0.5         8.4           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C30         28         32         8         30         100									
BZX85C12         11.4         12.7         20         9         350         0.5         0.5         8.4           BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C36         34         38         8         40         1000 </td <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>		-		-					
BZX85C13         12.4         14.1         20         10         400         0.5         0.5         9.1           BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C30         28         32         8         30         750         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000		-							
BZX85C15         13.8         15.6         15         15         500         0.5         0.5         10.5           BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000	BZX85C12	11.4	12.7	20	9	350	0.5	0.5	8.4
BZX85C16         15.3         17.1         15         15         500         0.5         0.5         11           BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         25           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C43         40         46         6         50         1000	BZX85C13	12.4	14.1	20	10	400	0.5	0.5	9.1
BZX85C18         16.8         19.1         15         20         500         0.5         0.5         12.5           BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500	BZX85C15	13.8	15.6	15	15	500	0.5	0.5	10.5
BZX85C20         18.8         21.2         10         24         600         0.5         0.5         14           BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0	BZX85C16			-		500	0.5		
BZX85C22         20.8         23.3         10         25         600         0.5         0.5         15.5           BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0.25         0.5         33	BZX85C18	16.8	19.1	15	20	500	0.5	0.5	12.5
BZX85C24         22.8         25.6         10         25         600         0.5         0.5         17           BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0.25         0.5         33	BZX85C20	18.8	21.2	10	24	600	0.5	0.5	14
BZX85C27         25.1         28.9         8         30         750         0.25         0.5         19           BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0.25         0.5         33	BZX85C22	20.8	23.3	10		600	0.5	0.5	15.5
BZX85C30         28         32         8         30         1000         0.25         0.5         21           BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0.25         0.5         33	BZX85C24	22.8	25.6	10		600	0.5		
BZX85C33         31         35         8         35         1000         0.25         0.5         23           BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0.25         0.5         33	BZX85C27			8			0.25		
BZX85C36         34         38         8         40         1000         0.25         0.5         25           BZX85C39         37         41         6         45         1000         0.25         0.5         27           BZX85C43         40         46         6         50         1000         0.25         0.5         30           BZX85C47         44         50         4         90         1500         0.25         0.5         33									
BZX85C39     37     41     6     45     1000     0.25     0.5     27       BZX85C43     40     46     6     50     1000     0.25     0.5     30       BZX85C47     44     50     4     90     1500     0.25     0.5     33	BZX85C33	31	35	8	35	1000	0.25	0.5	23
BZX85C43     40     46     6     50     1000     0.25     0.5     30       BZX85C47     44     50     4     90     1500     0.25     0.5     33	BZX85C36	34	38	8			0.25		
BZX85C47 44 50 4 90 1500 0.25 0.5 33	BZX85C39	37	41	6		1000	0.25	0.5	27
		_		6					
BZX85C51 48 54 4 115 1500 0.25 0.5 36									
	BZX85C51	48	54	4	115	1500	0.25	0.5	36

©2004 Fairchild Semiconductor Corporation

BZX85C3V3 - BZX85C100, Rev. E1

### Electrical Characteristics (Continued) T<sub>A</sub>=25°C unless otherwise noted

	Zener Voltage (Note 1)			Zener Impedance			Leakage Current	
Device	V <sub>Z</sub> (Volts)		Iz	Z <sub>Z</sub> @ I <sub>Z</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Min.	Max.	mA	<b>(</b> Ω <b>)</b>	<b>(</b> Ω <b>)</b>	(mA)	μ <b>Α Max.</b>	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

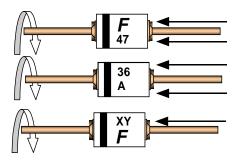
### V<sub>F</sub> Forward Voltage = 1.2V Max @ I<sub>F</sub> = 200mA

Notes:

1. Zener Voltage (V<sub>2</sub>)
The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T<sub>L</sub>) at 30°C ± 1°C and 3/8" lead length.

Device	Line 1	Line 2	Line 3	Line 4	Line 5
BZX85C3V3	LOGO	85C	3V3		XY
BZX85C3V6	LOGO	85C	3V6		XY
BZX85C3V9	LOGO	85C	3V9		XY
BZX85C4V3	LOGO	85C	4V3		XY
BZX85C4V7	LOGO	85C	4V7		XY
BZX85C5V1	LOGO	85C	5V1		XY
BZX85C5V6	LOGO	85C	5V6		XY
BZX85C6V2	LOGO	85C	6V2		XY
BZX85C6V8	LOGO	85C	6V8		XY
BZX85C7V5	LOGO	85C	7V5		XY
BZX85C8V2	LOGO	85C	8V2		XY
BZX85C9V1	LOGO	85C	9V1		XY
BZX85C10	LOGO	85C	10		XY
BZX85C11	LOGO	85C	11		XY
BZX85C12	LOGO	85C	12		XY
BZX85C13	LOGO	85C	13		XY
BZX85C15	LOGO	85C	15		XY
BZX85C16	LOGO	85C	16		XY
BZX85C18	LOGO	85C	18		XY
BZX85C20	LOGO	85C	20		XY
BZX85C22	LOGO	85C	22		XY
BZX85C24	LOGO	85C	24		XY
BZX85C27	LOGO	85C	27		XY
BZX85C30	LOGO	85C	30		XY
BZX85C33	LOGO	85C	33		XY
BZX85C36	LOGO	85C	36		XY
BZX85C39	LOGO	85C	39		XY
BZX85C43	LOGO	85C	43		XY
BZX85C47	LOGO	85C	47		XY
BZX85C51	LOGO	85C	51		XY
BZX85C56	LOGO	85C	56		XY
BZX85C62	LOGO	85C	62		XY
BZX85C68	LOGO	85C	68		XY
BZX85C75	LOGO	85C	75		XY
BZX85C82	LOGO	85C	82		XY
BZX85C91	LOGO	85C	91		XY
BZX85C100	LOGO	85C	100		XY

### **Top Mark Information** (Continued)



1st line: F - Fairchild Logo

 $2^{nd}$  line: Device Name -  $3^{rd}$  to  $4^{th}$  characters of device name for 1Nxx series or  $4^{th}$  to  $6^{th}$  characters for BZXyy series

3<sup>rd</sup> line: Device Name - 5<sup>th</sup> to 6<sup>th</sup> characters of device name for 1Nxx series or Voltage rating for BZXyy series

4<sup>th</sup> line: Device Name - 7<sup>th</sup> to 8<sup>th</sup> characters of device name for 1Nxx series or Large Die identification only for BZXyy series

5<sup>th</sup> line: Date Code - Two Digit - Six Weeks Date Code

#### **General Requirements:**

1.0 Cathod Band

2.0 First Line: F - Fairchild Logo

3.0 Second Line: Device name - For 1Nxx series:  $3^{rd}$  to  $4^{th}$  characters of the device name. For BZxx series:  $4^{th}$  to  $6^{th}$  characters of the device name.

4.0 Third Line: Device name - For 1Nxx series: 5<sup>th</sup> to 6<sup>th</sup> characters of the device name.

For BZXyy series: Voltage rating

5.0 Third Line: Device name - For 1Nxx series: 7<sup>th</sup> to 8<sup>th</sup> characters of the device name. (the 8<sup>th</sup> character is the large die identification)

For BZXyy series: Large Die Identification character

6.0 Fourth Line: Date Code - Two Digit - Six Weeks Date Code

Where: X represents the last digit of the calendar year Y represents the Six weeks numeric code

- 7.0 Devices shall be marked as required in the device specification (PID or FSC Test Spec).
- 8.0 Maximum no. of marking lines: 5
- 9.0 Maximum no. of digits per line: 3
- 10.0 FSC logo must be 20 % taller than the alphanumeric marking and should occupy the 2 characters of the specified line.
- 11.0 Marking Font: Arial (Except FSC Logo)
- 12.0 First character of each marking line must be aligned vertically

#### **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.

$ACEx^{TM}$	FACT Quiet Series™	ImpliedDisconnect™	PACMAN™	SPM™
ActiveArray™	FAST®	ISOPLANAR™	$POP^{TM}$	Stealth™
Bottomless™	FASTr™	LittleFET™	Power247™	SuperFET™
CoolFET™	FPS™	$MICROCOUPLER^{TM}$	PowerSaver™	SuperSOT™-3
CROSSVOLT™	FRFET™	MicroFET™	PowerTrench®	SuperSOT™-6
DOME™	GlobalOptoisolator™	MicroPak™	QFET®	SuperSOT™-8
EcoSPARK™	GTO™ .	MICROWIRE™	$QS^{TM}$	SyncFET™
E <sup>2</sup> CMOS <sup>TM</sup>	HiSeC™	MSX <sup>TM</sup>	QT Optoelectronics™	TinyLogic <sup>®</sup>
EnSigna™	I <sup>2</sup> C <sup>TM</sup>	MSXPro™	Quiet Series™	TINYOPTO™
FACT™	i-Lo™	$OCX^{TM}$	RapidConfigure™	TruTranslation™
Across the boar	d. Around the world.™	OCXPro™	RapidConnect™	UHC™
The Power Fran		OPTOLOGIC®	SILENT SWITCHER®	UltraFET®
Programmable A		OPTOPLANAR™	SMART START™	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
- 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.			