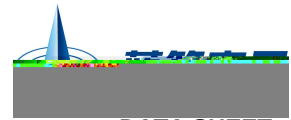


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BRBC847Q

Rev.A Feb.-2022



SOT-23

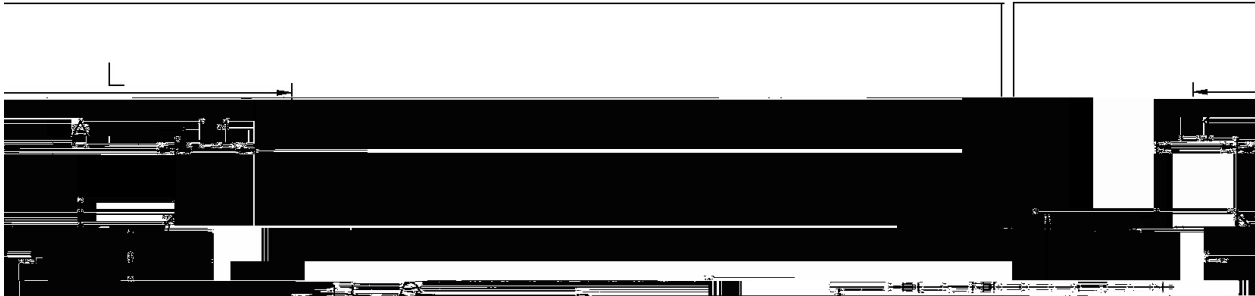
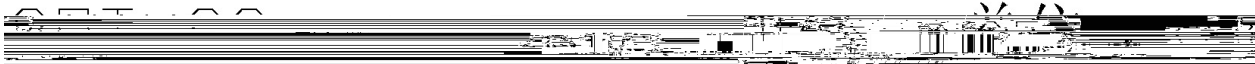
NPN

Silicon NPN transistor in a SOT-23

Parameter

Symbol

/ Package Dimensions



Dimensions	Symbol	Dimensions In Millimeters	Symbol	Dimensions In Millimeters
Pin 1 to Pin 2		1.27		1.27
Pin 1 to Pin 3		2.54		2.54
Pin 1 to Pin 4		3.81		3.81
Pin 1 to Pin 5		5.08		5.08
Pin 1 to Pin 6		6.35		6.35
Pin 1 to Pin 7		7.62		7.62
Pin 1 to Pin 8		8.89		8.89
Pin 1 to Pin 9		10.16		10.16
Pin 1 to Pin 10		11.43		11.43
Pin 1 to Pin 11		12.70		12.70
Pin 1 to Pin 12		13.97		13.97
Pin 1 to Pin 13		15.24		15.24
Pin 1 to Pin 14		16.51		16.51
Pin 1 to Pin 15		17.78		17.78
Pin 1 to Pin 16		19.05		19.05
Pin 1 to Pin 17		20.32		20.32
Pin 1 to Pin 18		21.59		21.59
Pin 1 to Pin 19		22.86		22.86
Pin 1 to Pin 20		24.13		24.13
Pin 1 to Pin 21		25.40		25.40
Pin 1 to Pin 22		26.67		26.67
Pin 1 to Pin 23		27.94		27.94
Pin 1 to Pin 24		29.21		29.21
Pin 1 to Pin 25		30.48		30.48
Pin 1 to Pin 26		31.75		31.75
Pin 1 to Pin 27		33.02		33.02
Pin 1 to Pin 28		34.29		34.29
Pin 1 to Pin 29		35.56		35.56
Pin 1 to Pin 30		36.83		36.83
Pin 1 to Pin 31		38.10		38.10
Pin 1 to Pin 32		39.37		39.37
Pin 1 to Pin 33		40.64		40.64
Pin 1 to Pin 34		41.91		41.91
Pin 1 to Pin 35		43.18		43.18
Pin 1 to Pin 36		44.45		44.45
Pin 1 to Pin 37		45.72		45.72
Pin 1 to Pin 38		46.99		46.99
Pin 1 to Pin 39		48.26		48.26
Pin 1 to Pin 40		49.53		49.53
Pin 1 to Pin 41		50.80		50.80
Pin 1 to Pin 42		52.07		52.07
Pin 1 to Pin 43		53.34		53.34
Pin 1 to Pin 44		54.61		54.61
Pin 1 to Pin 45		55.88		55.88
Pin 1 to Pin 46		57.15		57.15
Pin 1 to Pin 47		58.42		58.42
Pin 1 to Pin 48		59.69		59.69
Pin 1 to Pin 49		60.96		60.96
Pin 1 to Pin 50		62.23		62.23
Pin 1 to Pin 51		63.50		63.50
Pin 1 to Pin 52		64.77		64.77
Pin 1 to Pin 53		66.04		66.04
Pin 1 to Pin 54		67.31		67.31
Pin 1 to Pin 55		68.58		68.58
Pin 1 to Pin 56		69.85		69.85
Pin 1 to Pin 57		71.12		71.12
Pin 1 to Pin 58		72.39		72.39
Pin 1 to Pin 59		73.66		73.66
Pin 1 to Pin 60		74.93		74.93
Pin 1 to Pin 61		76.20		76.20
Pin 1 to Pin 62		77.47		77.47
Pin 1 to Pin 63		78.74		78.74
Pin 1 to Pin 64		80.01		80.01
Pin 1 to Pin 65		81.28		81.28
Pin 1 to Pin 66		82.55		82.55
Pin 1 to Pin 67		83.82		83.82
Pin 1 to Pin 68		85.09		85.09
Pin 1 to Pin 69		86.36		86.36
Pin 1 to Pin 70		87.63		87.63
Pin 1 to Pin 71		88.90		88.90
Pin 1 to Pin 72		90.17		90.17
Pin 1 to Pin 73		91.44		91.44
Pin 1 to Pin 74		92.71		92.71
Pin 1 to Pin 75		93.98		93.98
Pin 1 to Pin 76		95.25		95.25
Pin 1 to Pin 77		96.52		96.52
Pin 1 to Pin 78		97.79		97.79
Pin 1 to Pin 79		99.06		99.06
Pin 1 to Pin 80		100.33		100.33
Pin 1 to Pin 81		101.60		101.60
Pin 1 to Pin 82		102.87		102.87
Pin 1 to Pin 83		104.14		104.14
Pin 1 to Pin 84		105.41		105.41
Pin 1 to Pin 85		106.68		106.68
Pin 1 to Pin 86		107.95		107.95
Pin 1 to Pin 87		109.22		109.22
Pin 1 to Pin 88		110.49		110.49
Pin 1 to Pin 89		111.76		111.76
Pin 1 to Pin 90		113.03		113.03
Pin 1 to Pin 91		114.30		114.30
Pin 1 to Pin 92		115.57		115.57
Pin 1 to Pin 93		116.84		116.84
Pin 1 to Pin 94		118.11		118.11
Pin 1 to Pin 95		119.38		119.38
Pin 1 to Pin 96		120.65		120.65
Pin 1 to Pin 97		121.92		121.92
Pin 1 to Pin 98		123.19		123.19
Pin 1 to Pin 99		124.46		124.46
Pin 1 to Pin 100		125.73		125.73

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | | | |
|---|-------|-----|-----------|--|---|
| 1 | 150 | 200 | 60 | 120sec; | 1.Preheating:150~200°C, Time:60~120sec. |
| 2 | 255±5 | | 5±0.5sec; | 2.Peak Temp.:255±5°C, Duration:5±0.5sec. | |
| 3 | | 2 | 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. | |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box	Units/Outer Box			
SOT-23	2,000	10	30,000	6	180,000	7" x8	180×120×180	390×385×205