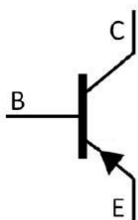


SOT-23 PNP Silicon PNP transistor in a SOT-23 Plastic Package.

BCW32

Low current, low voltage, complements to BCW32.

General purpose switching and amplifier applications.

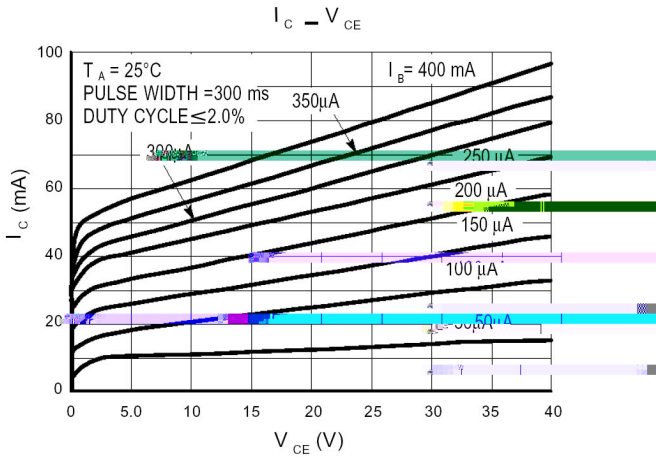
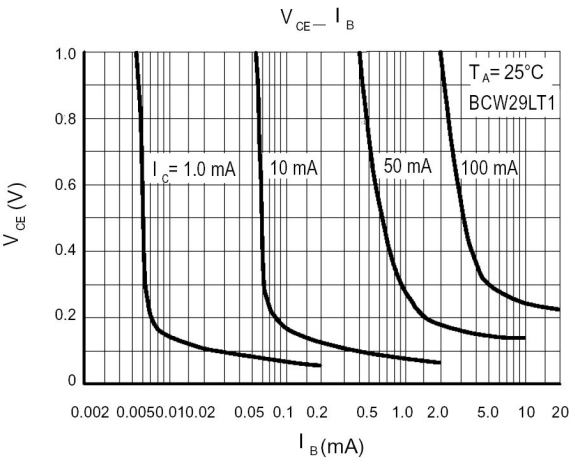
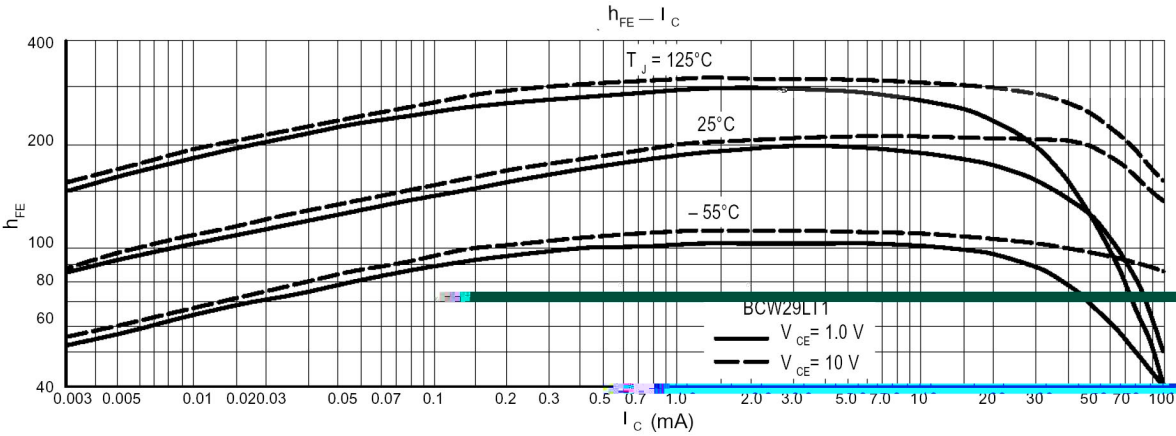


PIN1 Base PIN 2 Emitter PIN 3 Collector

h_{FE} Range	215~500
Marking	HC2

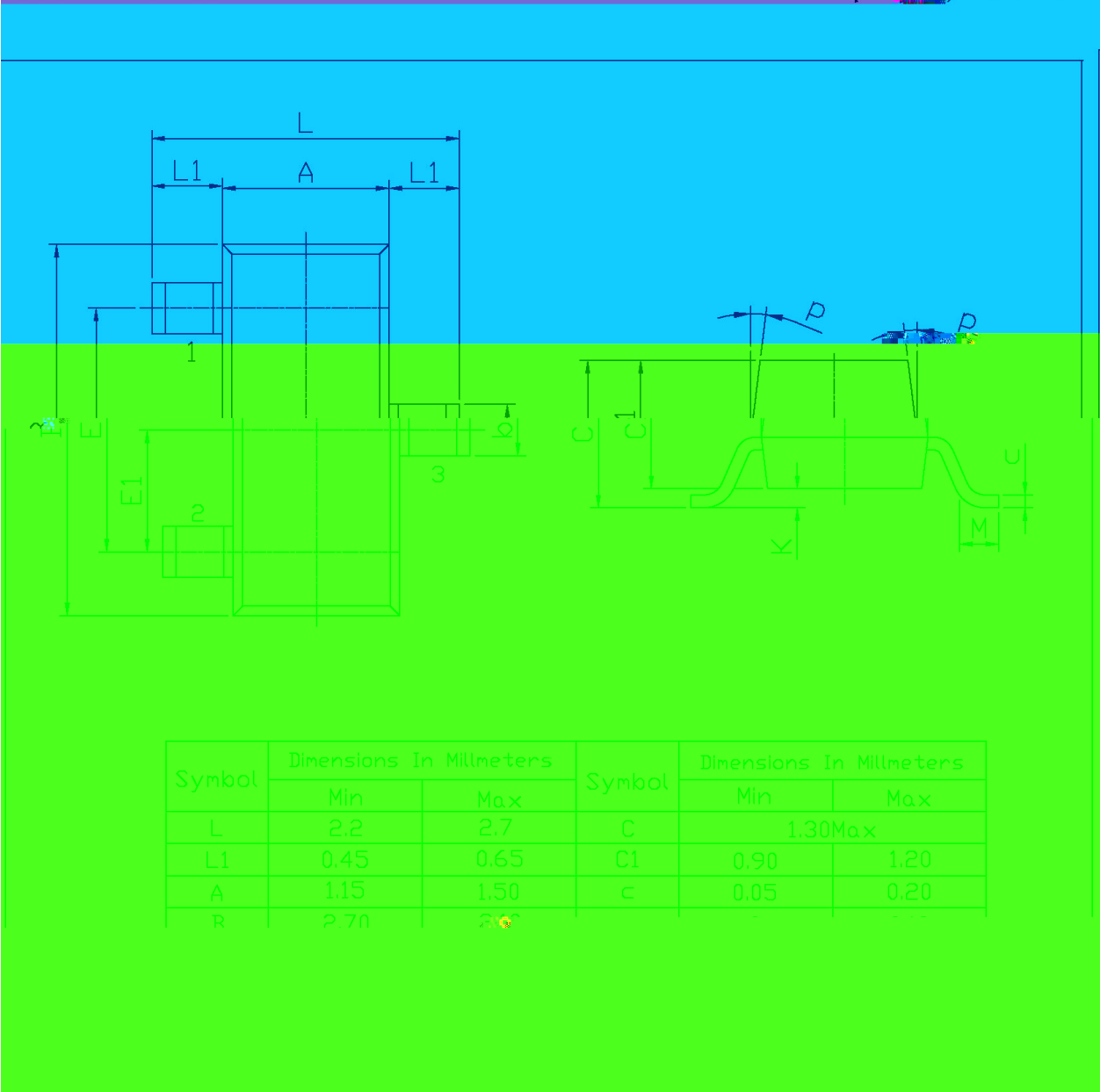
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-32	V
Collector to Emitter Voltage	V_{CEO}	-32	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current(DC)	I_C	-100	mA
Peak Collector Current	I_{CM}	-200	mA
Peak Base Current	I_{BM}	-200	mA
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

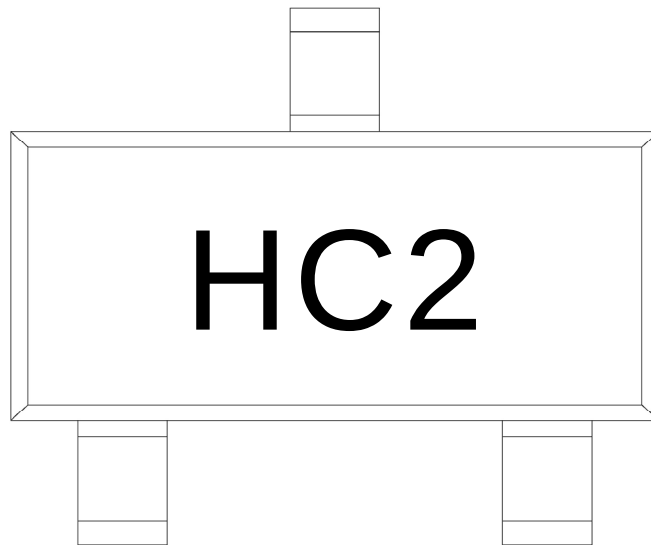
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-32\text{ V}$ $I_E=0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-5.0\text{V}$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-5.0\text{V}$ $I_C=-2.0\text{mA}$	215		500	
	$h_{FE(2)}$	$V_{CE}=-5.0\text{V}$ $I_C=-10\mu\text{A}$		150		
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-10\text{mA}$ $I_B=-0.5\text{mA}$		-80	-300	mV
	$V_{CE(sat)(2)}$	$I_C=-50\text{mA}$ $I_B=-2.5\text{mA}$		-150		mV
Base to Emitter Saturation Voltage	$V_{BE(sat)(1)}$	$I_C=-10\text{mA}$ $I_B=-0.5\text{mA}$		-720		mV
	$V_{BE(sat)(2)}$	$I_C=-50\text{mA}$ $I_B=-2.5\text{mA}$		-810		mV
Base-Emitter On Voltage	V_{BE}	$V_{CE}=-5.0\text{V}$ $I_C=-2.0\text{mA}$	-600		-750	mV
Transition Frequency	f_T	$I_C=-10\text{mA}$ $f=100\text{MHz}$ $V_{CE}=-5.0\text{V}$	100			MHz
Collector Capacitance	C_C	$V_{CB}=-10\text{V}$ $I_E=0$ $f=1\text{MHz}$		4.5		pF
Noise Figure	NF	$V_{CE}=-5.0\text{V}$ $I_C=-200\mu\text{A}$ $R_S=2\text{K}\Omega$ $f=1\text{KHz}$ $B=200\text{Hz}$			10	dB



SOT-23

单位: mm





H

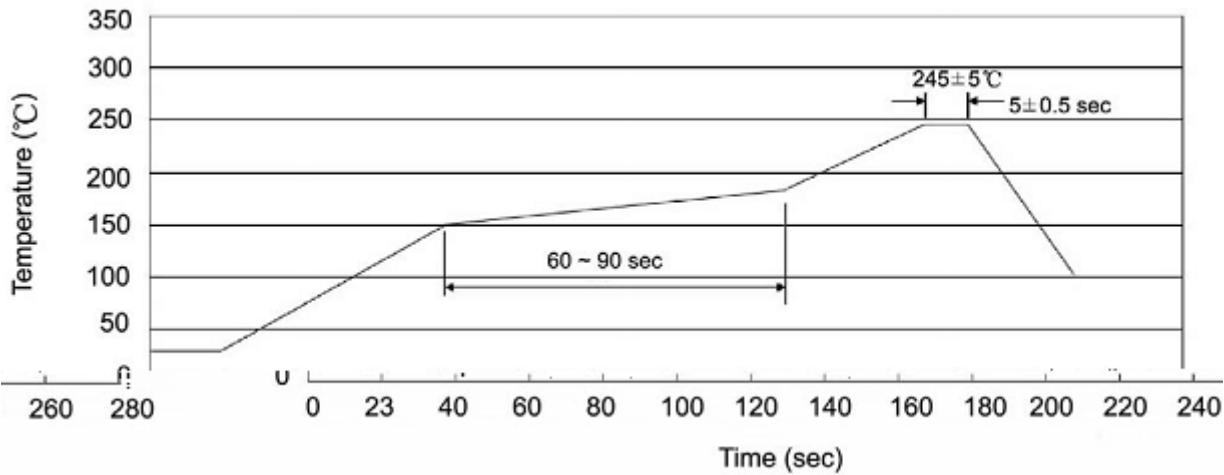
C2

Note:

H: Company Code.

C2: Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱