/ Descriptions

Silicon PNP transistor in a TO-251 Plastic Package.

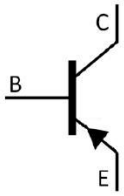
/ Features

High f_T, complementary pair with 2SC5171I.

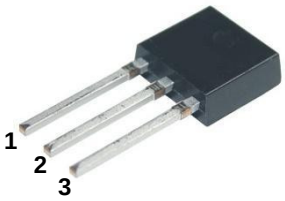
/ Applications

General power and driver stage amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

See Marking Instructions.

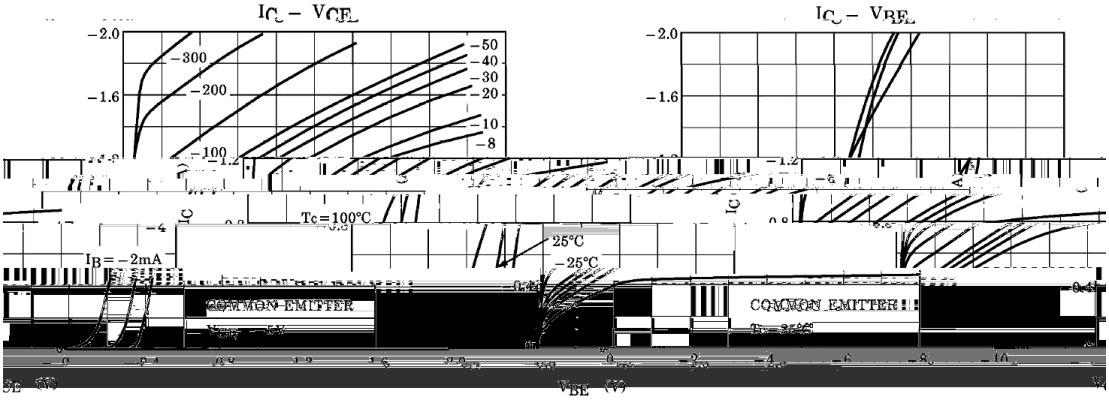
/ Absolute Maximum Ratings(Ta=25)

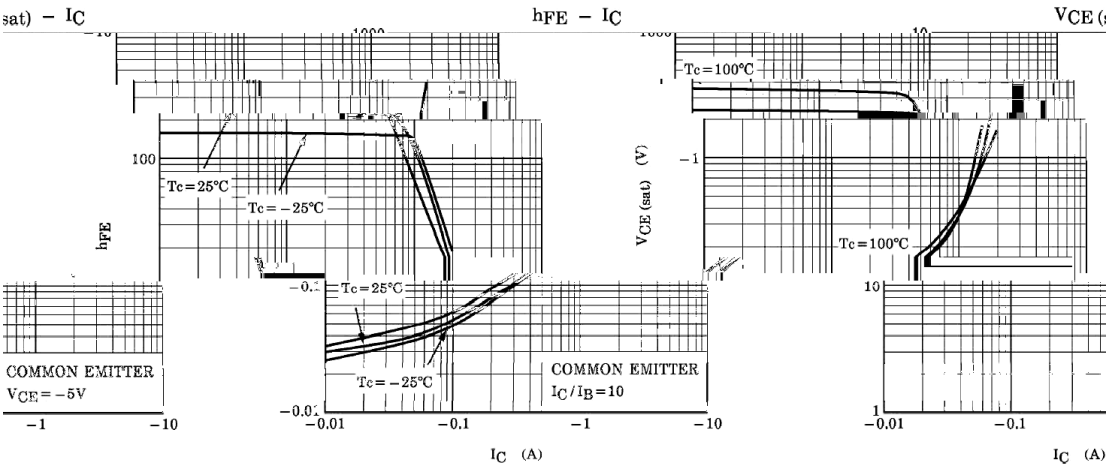
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-180	V
Collector to Emitter Voltage	V_{CEO}	-180	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-2.0	A
Base Current - Continuous	I_B	-1.0	A
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	P_C(Tc=25)	20	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

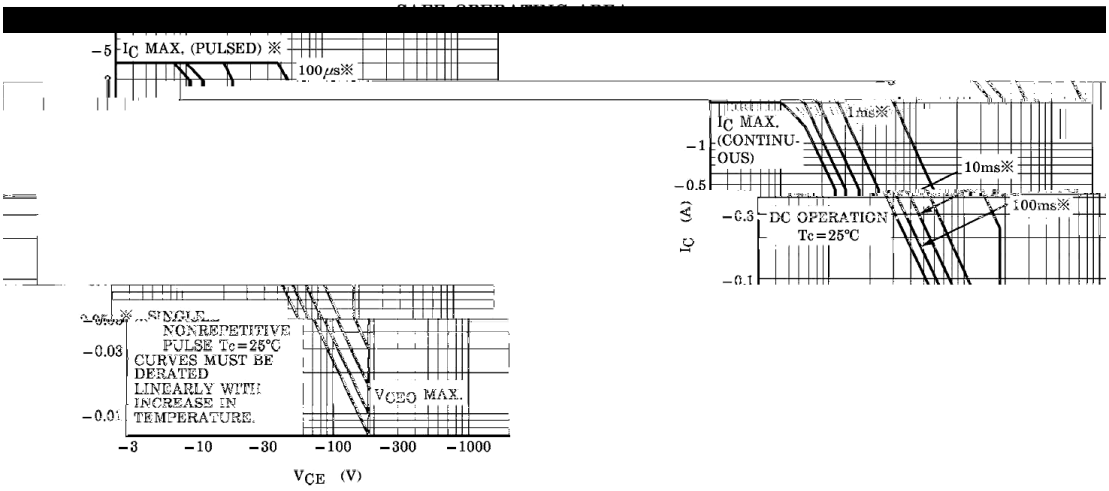
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA I_B=0	-180			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-180V I_E=0			-5.0	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-5.0	A
DC Current Gain	$h_{FE(1)}$	V_{CE}=-5.0V I_C=-100mA	100		320	
	$h_{FE(2)}$	V_{CE}=-5.0V I_C=-1.0A	50			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-1.0A I_B=-100mA		-0.24	-1.0	V
Base to Emitter Voltage	V_{BE}	V_{CE}=-5.0V I_C=-1.0A		-0.68	-1.5	V
Transition Frequency	f_T	V_{CE}=-5.0V I_C=-300mA		200		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V I_E=0 f=1.0MHz		26		pF

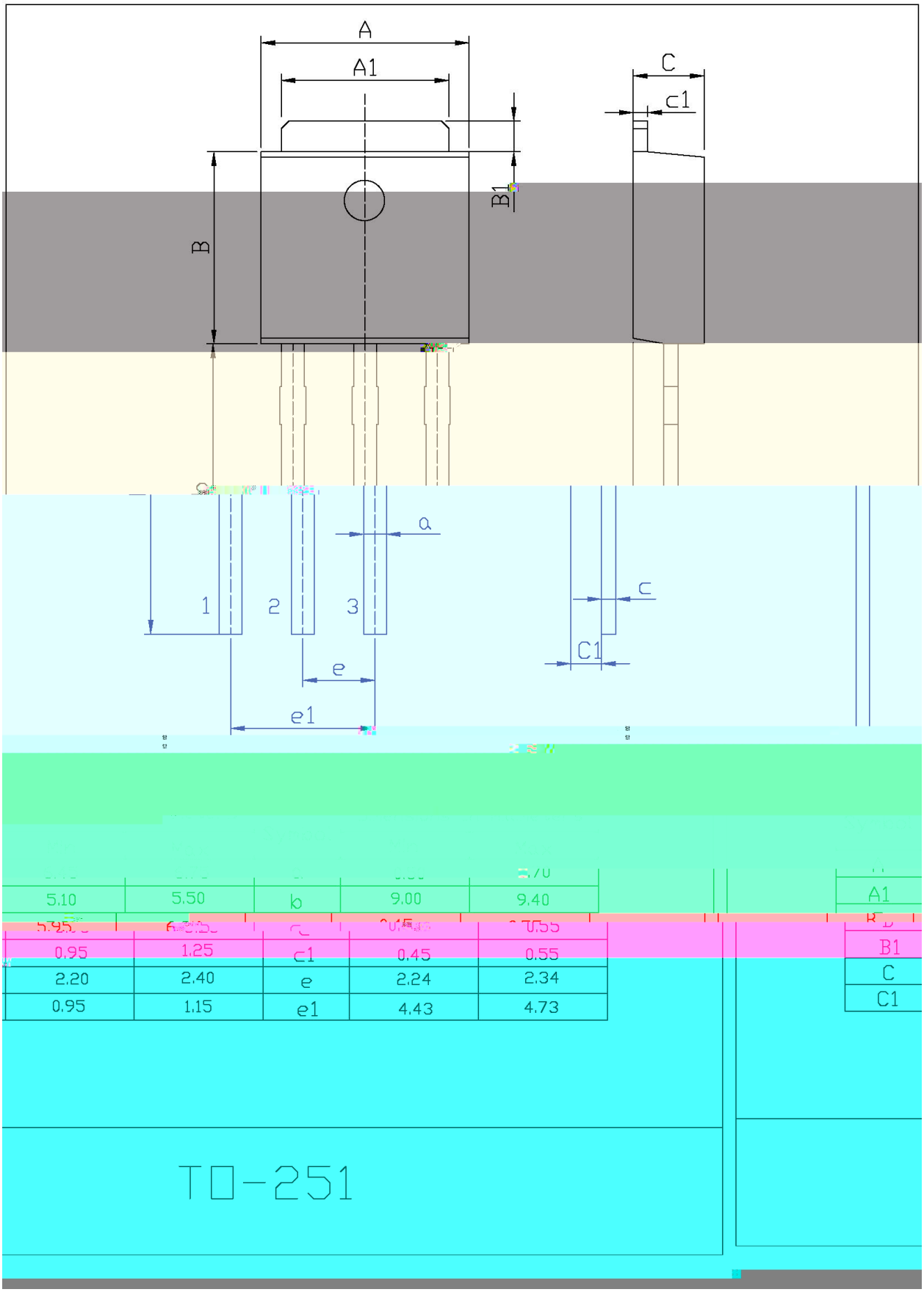
/ Electrical Characteristic Curve



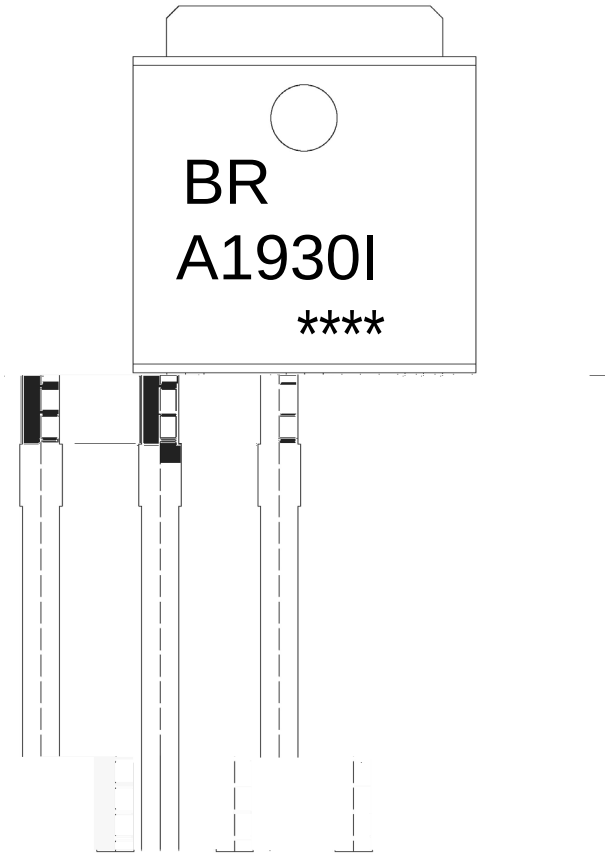




/ Package Dimensions



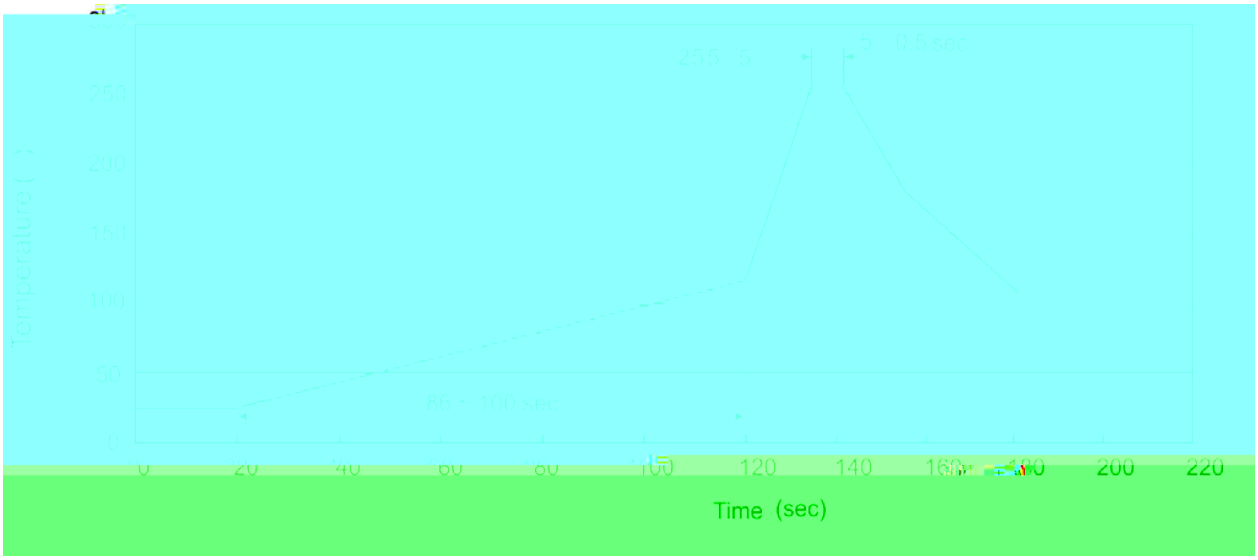
/ Marking Instructions



Note:

BR:	Company Code
A1930I:	Product Type.
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



	Note:
1 25 150 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2 255 5 5 0.5sec;	2.Peak Temp.:255 5 , Duration:5 0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units				Dimension	(unit mm^3)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /			