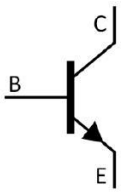
TO-92 NPN Silicon NPN transistor in a TO-92 Plastic Package.

PC, IC , S8550A
High PC and IC, complementary pair with S8550A.

Amplifier of portable radios in class B push-pull operation.





PIN1 Base6 PIN 2

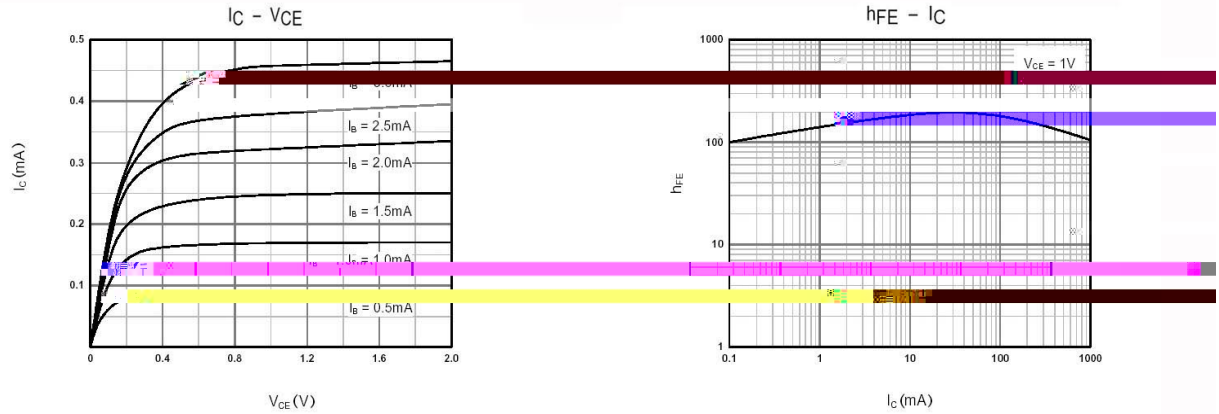
/ Absolute Maximum Ratings(Ta=25)

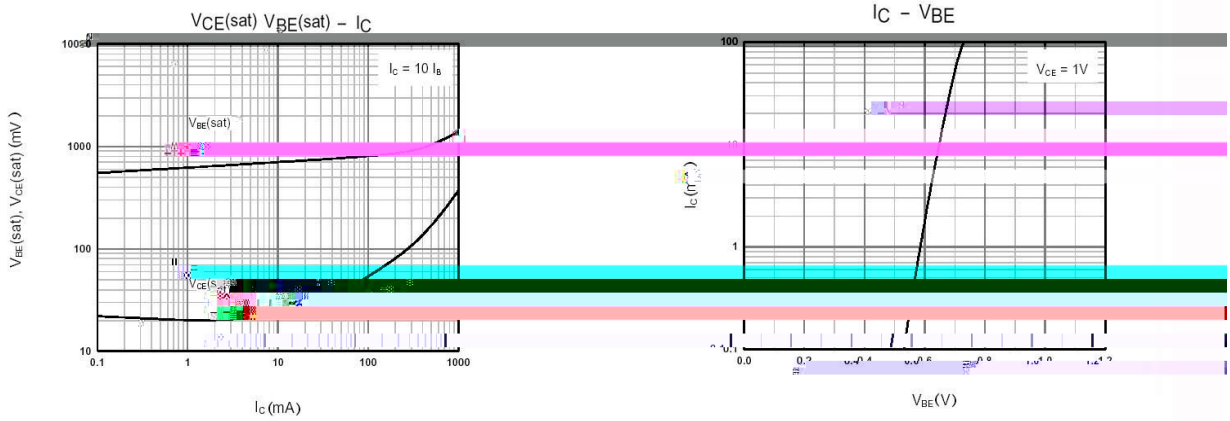
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	800	mA
Base Current - Continuous	I_B	200	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

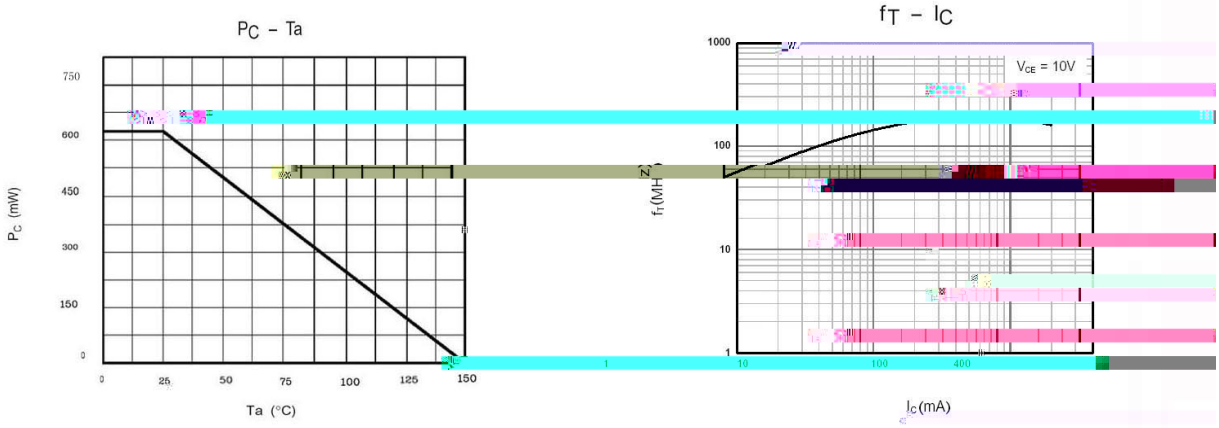
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=0.1mA I_E=0	40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=2.0mA I_B=0	25			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=0.1mA I_C=0	6.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=35V I_E=0			0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=6.0V I_C=0			0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=1.0V I_C=100mA	85		300	
	$h_{FE(2)}$	V_{CE}=1.0V I_C=500mA	40			
	$h_{FE(3)}$	V_{CE}=1.0V I_C=5.0mA	45			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA I_B=50mA		0.28	0.6	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=500mA I_B=50mA		0.98	1.2	V
Base to Emitter Voltage	V_{BE}	V_{CE}=1.0V I_C=10mA		0.66	1.0	V
Transition Frequency	f_T	V_{CE}=10V I_C=50mA	100	190		MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V I_E=0 f=1.0MHz		9.0		pF

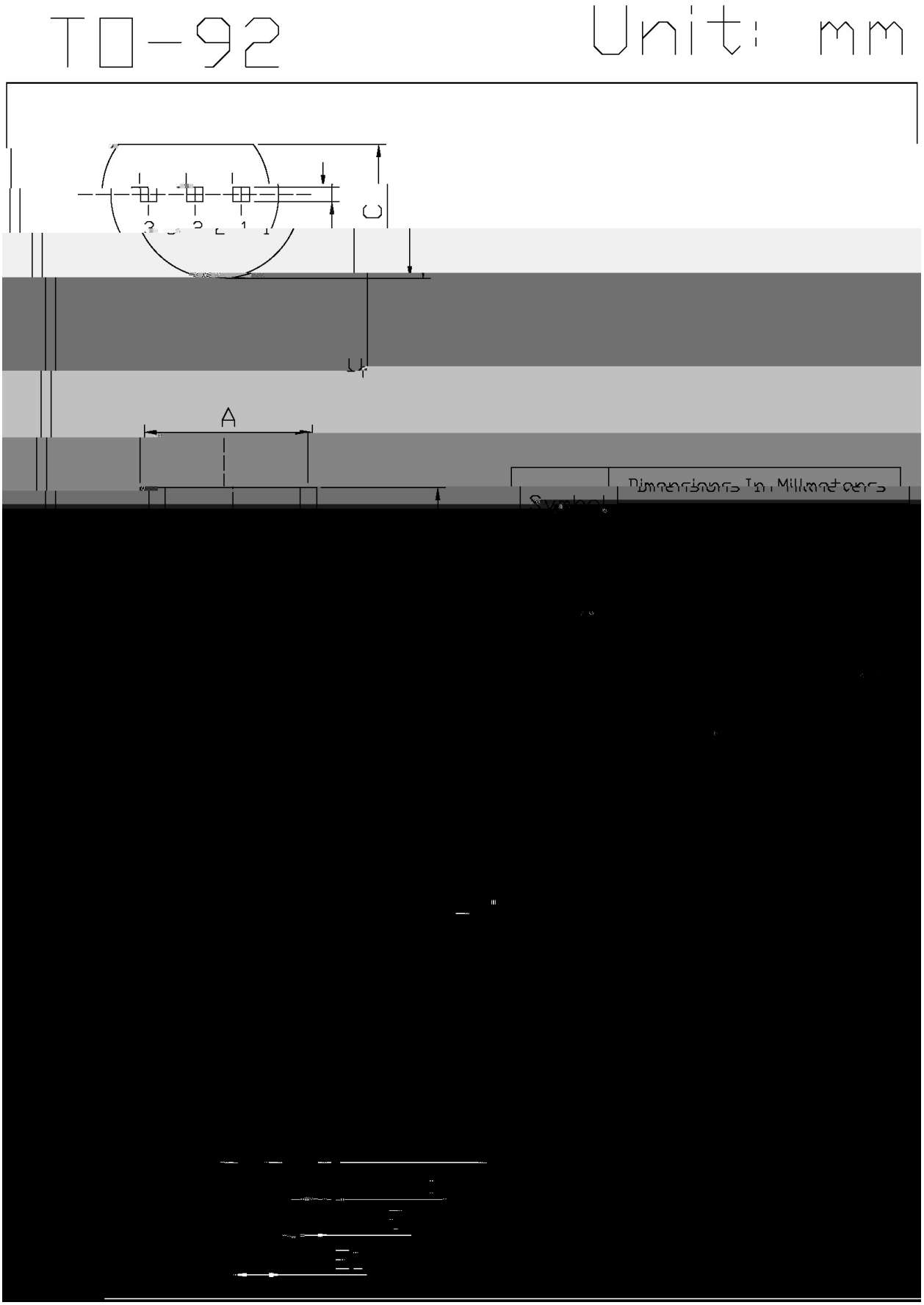
/ Electrical Characteristic Curve



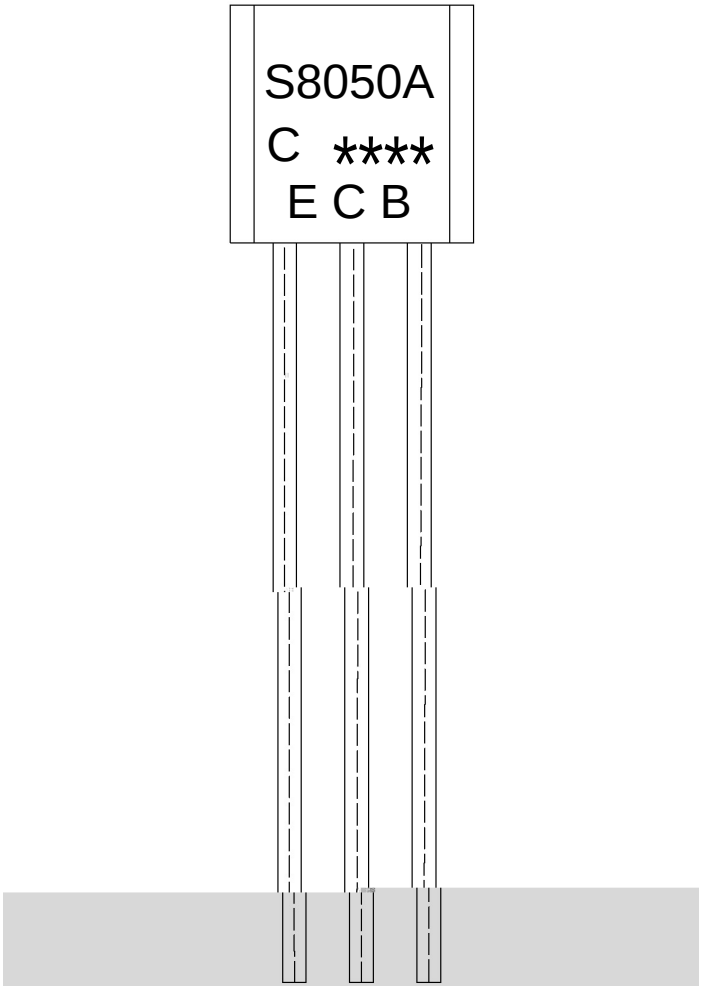




/ Package Dimensions



/ Marking Instructions



S8050A

C: h_{FE}

****

ECB

Note:

S8050A:	Product Type.
C:	h_{FE} Classifications Symbol.
****:	Lot No. Code, code change with Lot No.
ECB	PIN Code

( ) / 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 - 6L6)(1sgBDq