

Description

Silicon PNP transistor in a TO-92LM Plastic Package

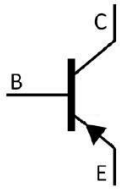
Features

- Low collector saturation voltage high speed switching time
- Complementary pair with 2SC2655

Applications

Power amplifier and switching applications.

Symbol	Parameter	Max	Unit
V_{CE0}	collector-emitter voltage	-50	V
I_c	collector current (DC)	-2.0	A

Equivalent Circuit & Pinning


PIN1: Base

PIN 2: Collector

PIN 3: Emitter

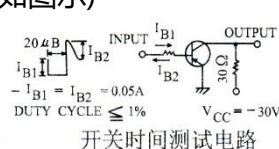
hFE Classifications & Marking

h _{FE} Classifications Symbol	O	Y
h _{FE} Range	70~140	120~240

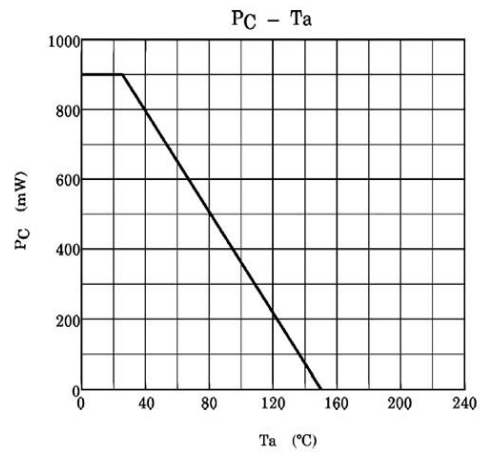
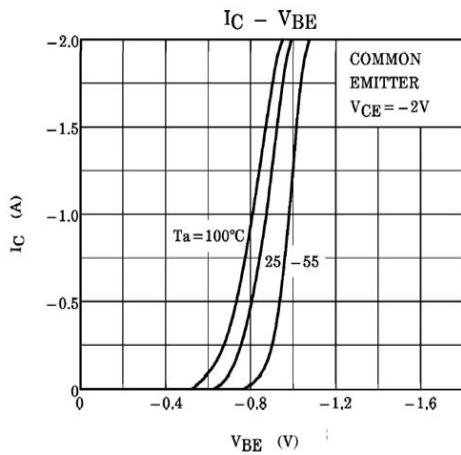
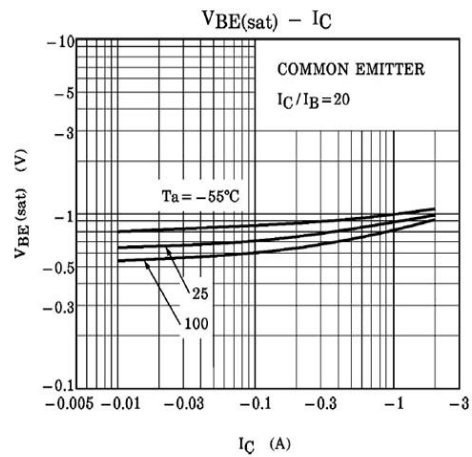
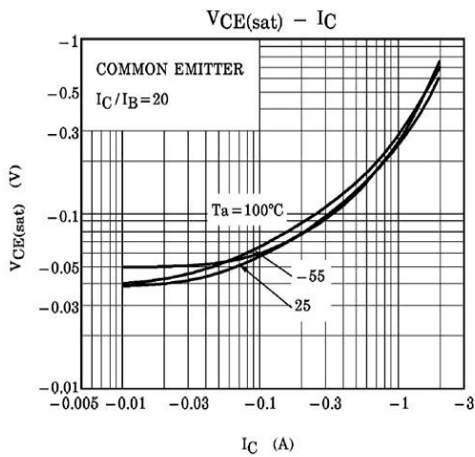
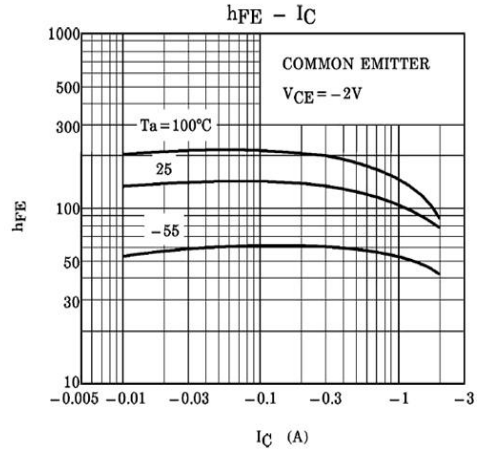
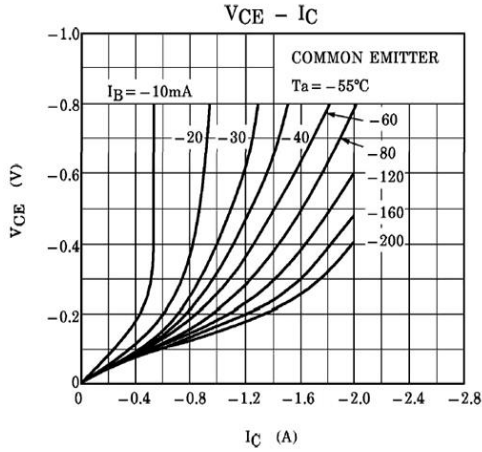
Absolute Maximum Ratings(Ta=25°C)

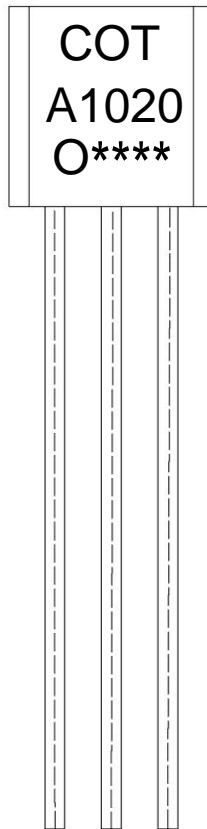
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-2.0	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

Electrical Characteristic (Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-10mA$ $I_B=0$	-50			V	
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-50V$ $I_E=0$			-1.0	μA	
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-1.0	μA	
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V$ $I_C=-0.5A$	70		240		
	$h_{FE(2)}$	$V_{CE}=-2.0V$ $I_C=-1.5A$	40				
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-1.0A$ $I_B=-0.05A$			-0.5	V	
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-1.0A$ $I_B=-0.05A$			-1.2	V	
Transition Frequency	f_T	$V_{CE}=-2.0V$ $I_C=-0.5A$	50	100		MHz	
Collector output capacitance	C_{ob}	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$			40	pF	
Turn-Off Time	t_f	(如图示) 		0.1		μs	
Turn-On Time	t_{on}				0.1		μs
Storage Time	t_{stg}				1.0		μs

Electrical Characteristic Curve



Marking Instructions


Note:

COT: Company Code.

A1020: Product Type.

O: hFE Classifications Symbol.

****: Lot No. Code, code change with Lot No

h _{FE} Classifications Symbol	O	Y
h _{FE} Range	70~140	120~240

Packaging SPEC.
BULK

Package Type	Units					Dimension (unit: mm3)		
	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Bag	Inner Box	Outer Box
TO-92LM	1,000	8	8,000	5	40,000	135×190	237×172×102	560×245×195

AMMO

Package Type	Units					Dimension (unit: mm3)	
	Units/tape	Tape/Inner Box	Rows/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Inner Box	Outer Box
TO-92LM	2,500	1	100	10	25,000	328×230×42	小箱480×346×235 大箱547×407×268

Package Outline Dimensions

TO-92LM

Unit: mm

