

Descriptions

Silicon PNP transistor in a TO-92LM Plastic Package

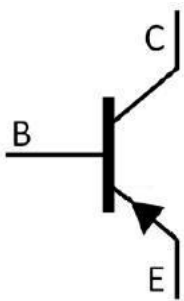
Features

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

Applications

Power amplifier and switching applications.

Equivalent Circuit



Pinning



PIN1: Base PIN 2: Collector PIN 3: Emitter

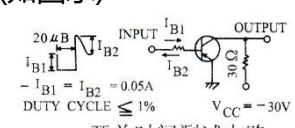
hFE Classifications & Marking

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

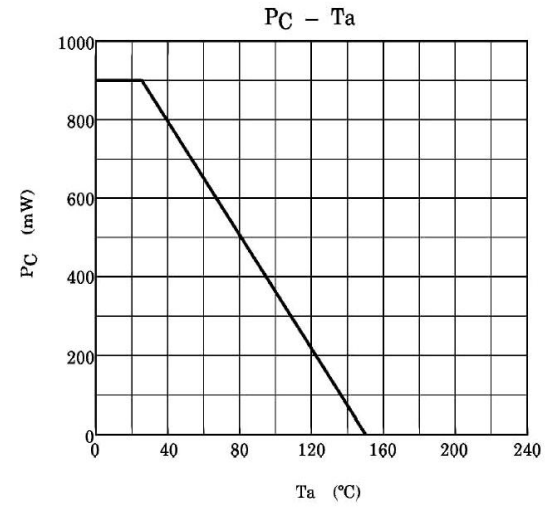
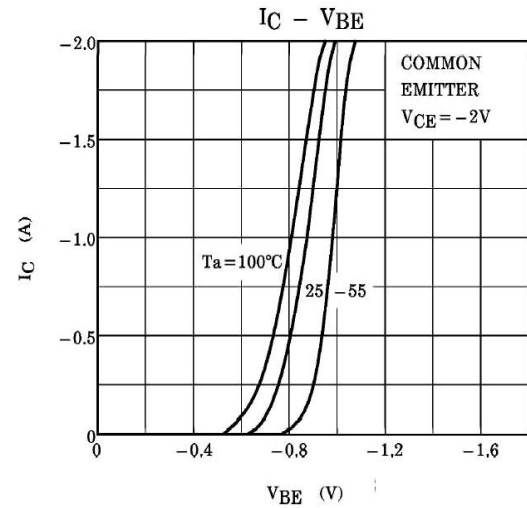
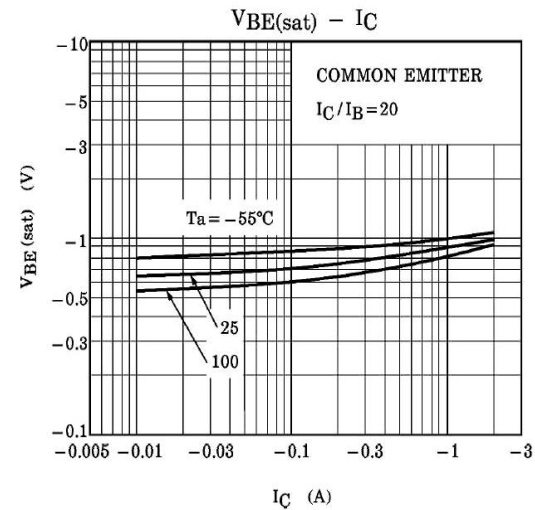
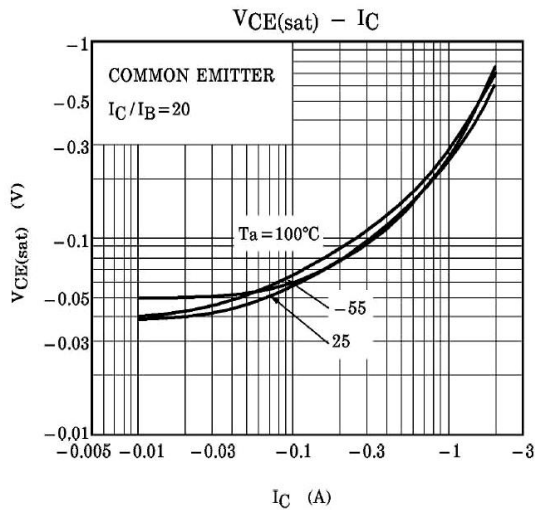
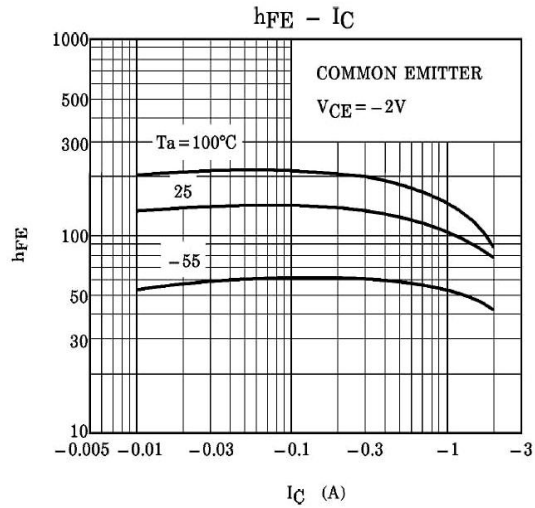
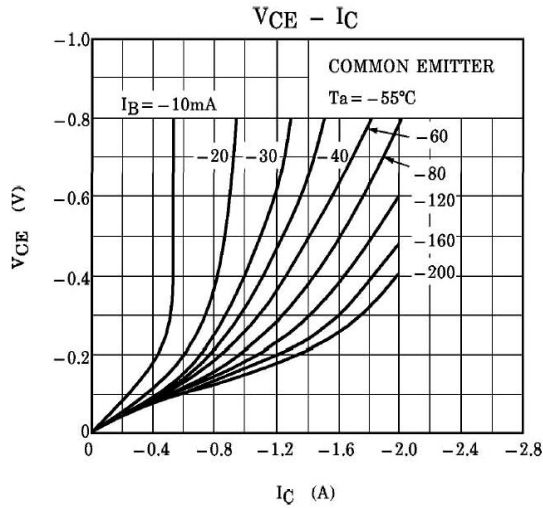
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CB0}	-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

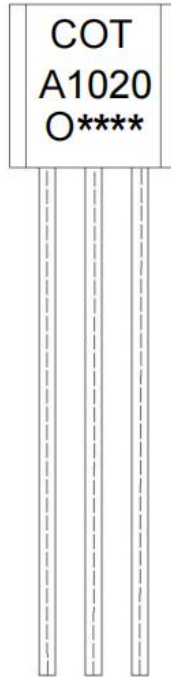
Electrical Characteristics(Ta=25°C)

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)  I _{B1} = I _{B2} = 0.05A DUTY CYCLE ≤ 1% V _{CC} = -30V 开关时间测试电路		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

T0-92LM

Unit: mm

