

Descriptions

This is Silicon NPN transistor in a TO-92LM Plastic Package.

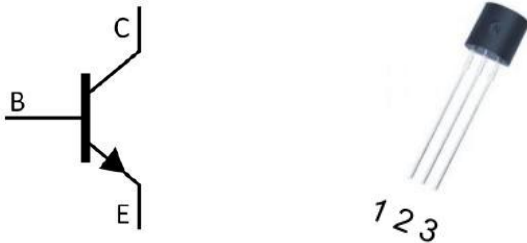
Features

- High V_{CE0}
- Complementary pair with 2SA1013.

Applications

Color TV class B sound output applications.

Equivalent Circuit & Pinning



PIN1: Base

PIN 2: Collector

PIN 3: Emitter

Marking

h_{FE} Classifications Symbol	R	O	Y
h_{FE} Range	60~120	100~200	160~320

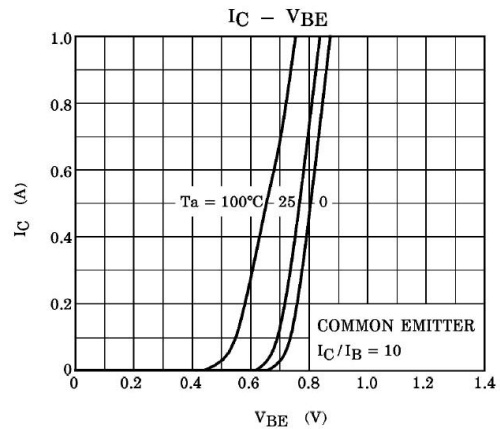
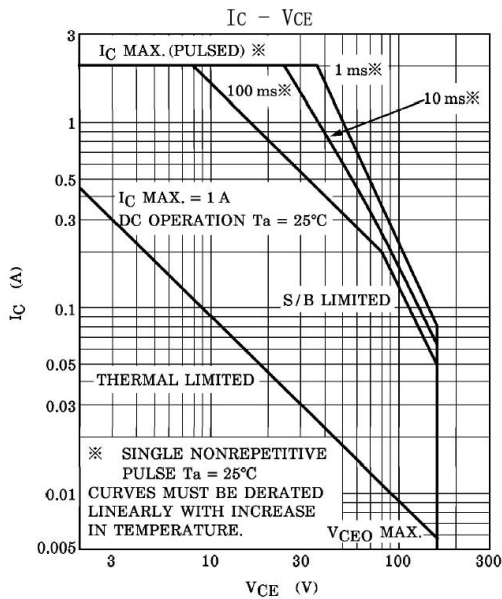
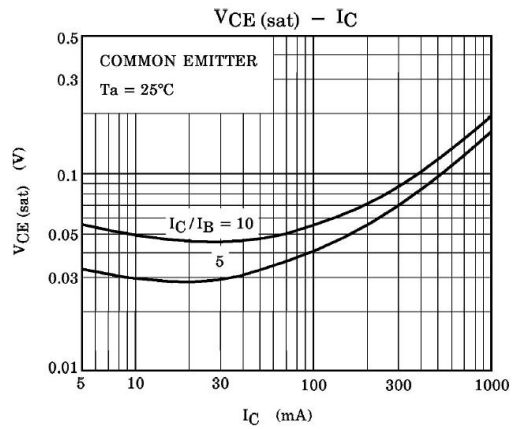
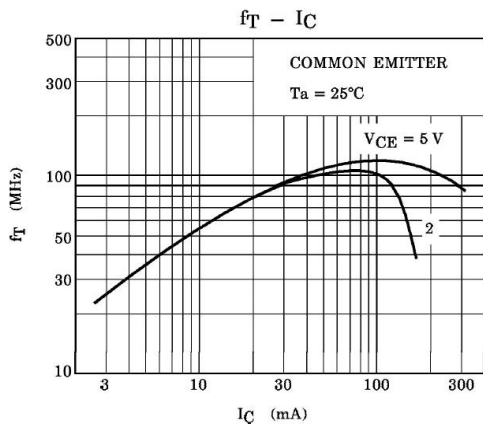
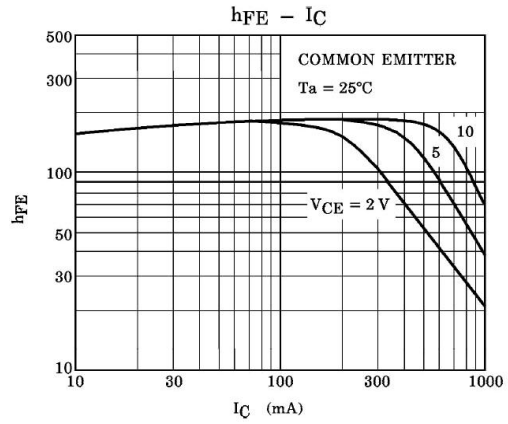
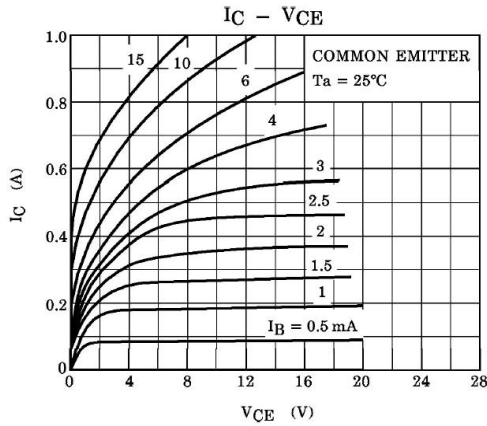
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	160	V
Collector to Emitter Voltage	V_{CEO}	160	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current (DC)	I_C	1.0	A
Base Current	I_B	0.5	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

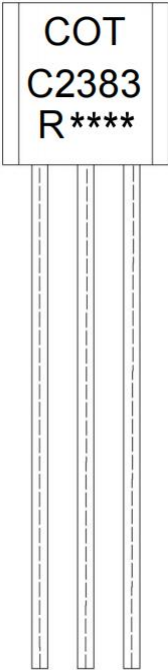
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA$ $I_B=0$	160			V
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=100\mu A$ $I_B=0$	160			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=150V$ $I_E=0$			1.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=6.0V$ $I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=5.0V$ $I_C=200mA$	60		320	
Base to Emitter Voltage	V_{BE}	$V_{CE}=5.0V$ $I_C=5.0mA$	0.45		0.75	V
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$ $I_B=50mA$			1.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500mA$ $I_B=50mA$			1.2	V
Transition Frequency	f_T	$V_{CE}=5.0V$ $I_C=200mA$	20	100		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $f=1.0MHz$ $I_E=0$			20	pF

Electrical Characteristic Curve



Marking Instructions



- Note:
- COT: Company Code.
 - C2383: Product Type.
 - R: hFE Classifications Symbol.
 - ****: Lot No. Code, code change with Lot No

h _{FE} Classifications Symbol	R	O	Y
h _{FE} Range	60~120	100~200	160~320

Packaging SPEC

BULK

Package Type	Units					Dimension (unit: mm3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	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

