

### Description

Silicon PNP transistor in a TO-92LM Plastic Package

### Features

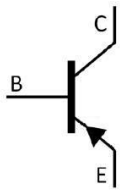
- High voltage
- Large continuous collector current capability
- Complementary pair with 2SC2383

### Applications

Color TV vert. and class B sound output applications.

Symbol	Parameter	Max	Unit
$V_{CE0}$	collector-emitter voltage	-160	V
$I_c$	collector current (DC)	-1.0	A

### Equivalent Circuit & Pinning



PIN1: Base

PIN 2: Collector

PIN 3: Emitter

### hFE Classifications & Marking

h <sub>FE</sub> Classifications Symbol	R	O	Y
h <sub>FE</sub> Range	60~120	100~200	160~320

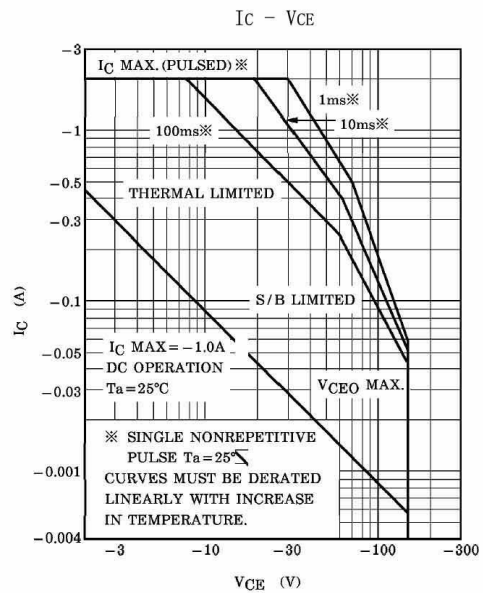
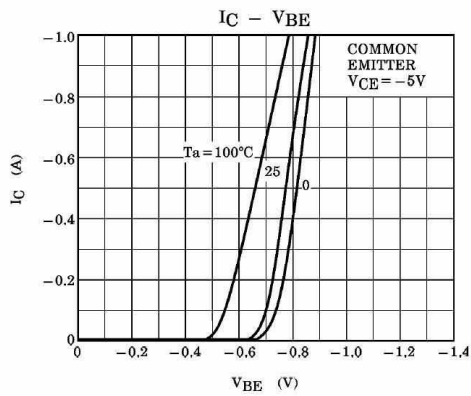
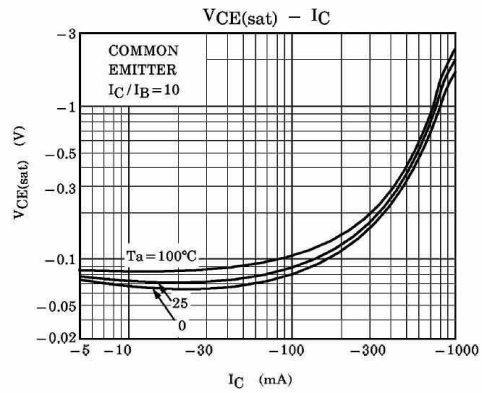
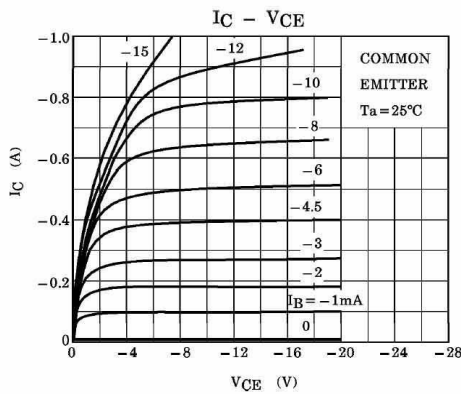
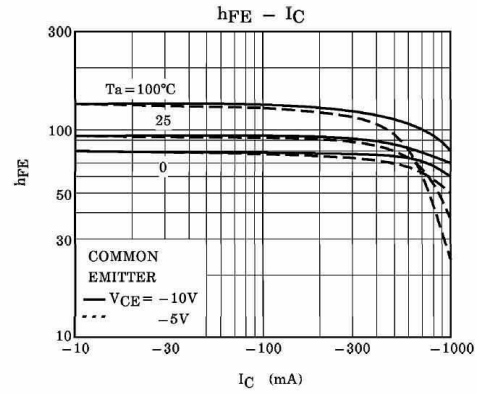
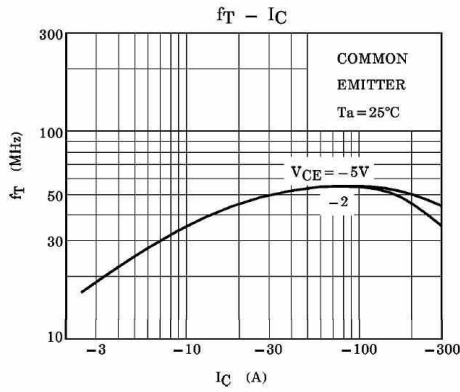
**Absolute Maximum Ratings(Ta=25°C)**

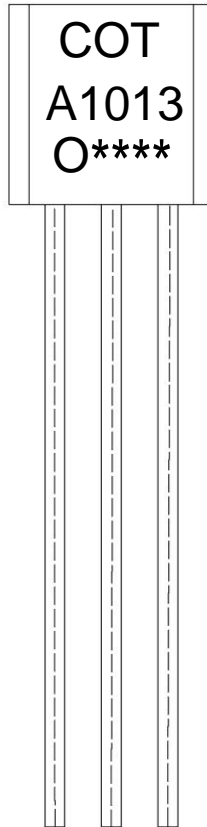
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-160	V
Collector to Emitter Voltage	$V_{CEO}$	-160	V
Emitter to Base Voltage	$V_{EBO}$	-6.0	V
Collector Current - Continuous	$I_C$	-1.0	A
Base Current - Continuous	$I_B$	-0.5	A
Collector Power Dissipation	$P_C$	900	mW
Junction Temperature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

**Electrical Characteristic (Ta=25°C)**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-10mA$ $I_B=0$	-160			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-150V$ $I_E=0$			-1.0	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-6.0V$ $I_C=0$			-1.0	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=-5.0V$ $I_C=-200mA$	60		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA$ $I_B=-50mA$			-1.5	V
Base to Emitter Voltage	$V_{BE}$	$V_{CE}=-5.0V$ $I_C=-5.0mA$			-0.75	V
Transition Frequency	$f_T$	$V_{CE}=-5.0V$ $I_C=-200mA$	15	50		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$			35	pF

Electrical Characteristic Curve



**Marking Instructions**


Note:

COT: Company Code.

A1013: Product Type.

O: hFE Classifications Symbol.

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

h <sub>FE</sub> Classifications Symbol	R	O	Y
h <sub>FE</sub> Range	60~120	100~200	160~320

**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

