

## Descriptions

Silicon PNP transistor in a TO-126F Plastic Package

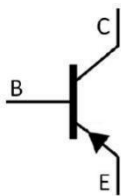
## Features

- Low saturation voltage
- Excellent  $h_{FE}$  linearity and high  $h_{FE}$ .

## Applications

- Output stage of 3 watts audio amplifier,
- voltage regulator,
- DC-DC converter and relay driver.

## Equivalent Circuit & Pinning



PIN1: Emitter

PIN 2: Collector

PIN 3: Base

## $h_{FE}$ Classifications & Marking

$h_{FE}$ Classifications Symbol	R	Q	P	E
$h_{FE}$ Range	60~120	100~200	160~320	200~400

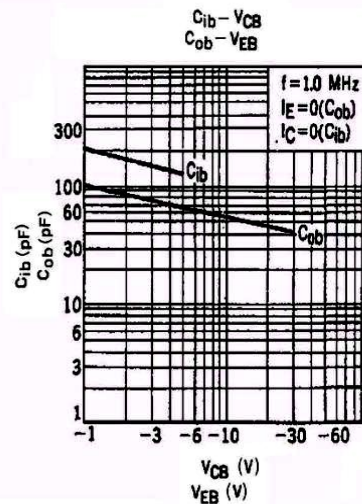
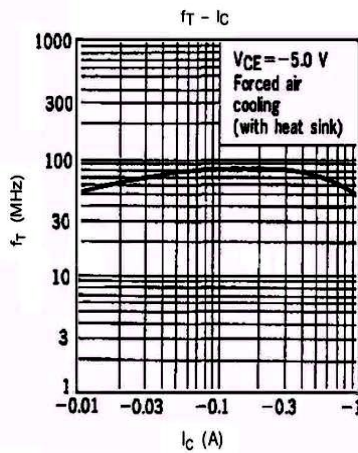
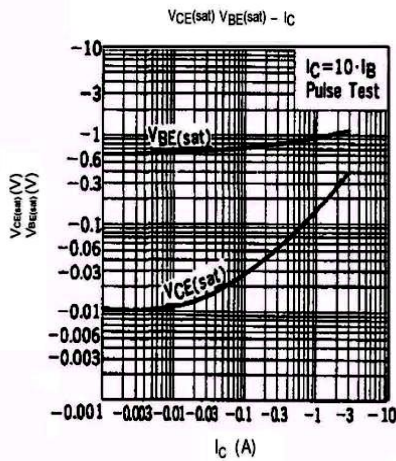
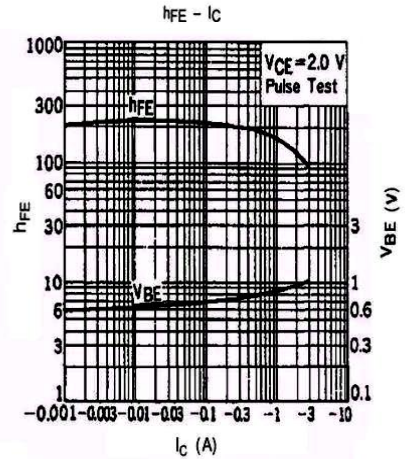
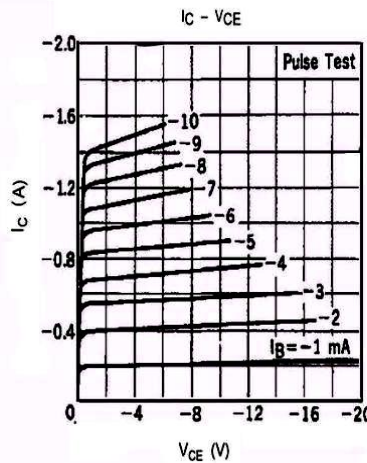
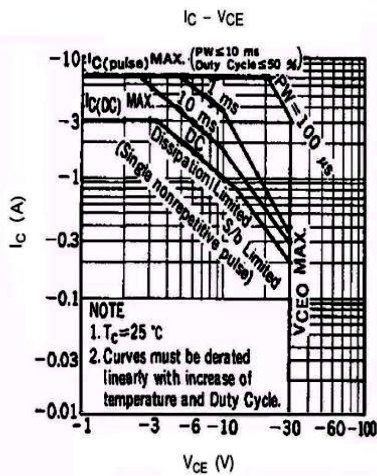
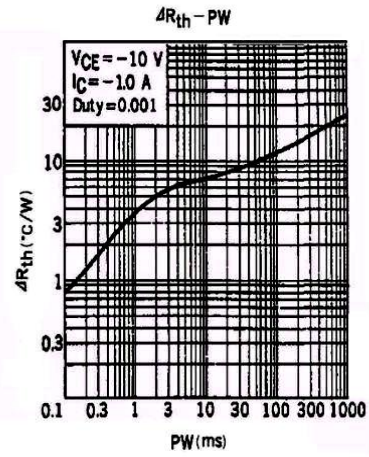
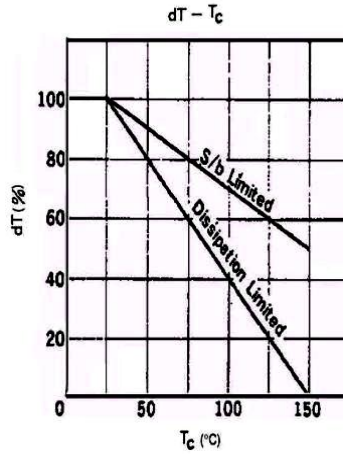
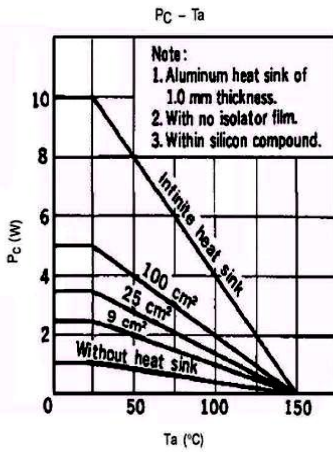
## Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-40	V
Collector to Emitter Voltage	$V_{CEO}$	-30	V
Emitter to Base Voltage	$V_{EBO}$	-5.0	V
Collector Current - Continuous	$I_C$	-3.0	A
Peak Collector Current	$I_{cp}$	-7.0	A
Collector Power Dissipation	$P_C$	1.0	W
	$P_C(T_C=25^\circ\text{C})$	10	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C

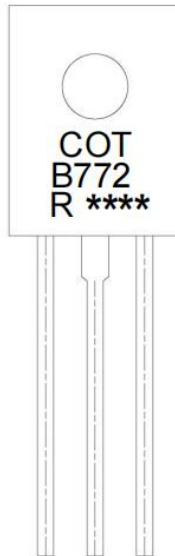
## Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-30V$ $I_E=0$			-1.0	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-3.0V$ $I_C=0$			-1.0	$\mu\text{A}$
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V$ $I_C=-1.0A$	60	160	400	
	$h_{FE(2)}$	$V_{CE}=-2.0V$ $I_C=-20mA$	30	220		
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2.0A$ $I_B=-0.2A$		-0.3	-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-2.0A$ $I_B=-0.2A$		-1.0	-2.0	V
Transition Frequency	$f_T$	$I_C=-0.1A$ $V_{CE}=-5.0V$		80		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V$ $f=1.0MHz$ $I_E=0$		55		pF

Electrical Characteristic Curve



**Marking Instructions**



Note:

- COT: Company Code
- B772: Product Type
- R:  $h_{FE}$  Classifications Symbol
- \*\* : Lot No. Code, code change with Lot No

$h_{FE}$ Classifications Symbol	R	Q	P	E
$h_{FE}$ Range	60~120	100~200	160~320	200~400

**Packaging SPEC**

**BULK**

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

**TUBE**

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-126/F	65	26	1,690	5	8,450	532×31×5.6	555×164×50	575×290×180

Package Outline Dimensions

TO-126F

单位: mm

