

## 三極管 NPN Silicon AF Transistor

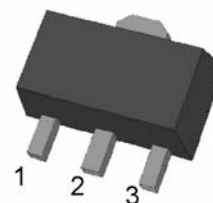
### NPN Silicon AF Transistor 三極管

### FHBCX56

#### DESCRIPTION & FEATURES 概述及特點

- 1) For AF driver and output stages
- 2) High collector current
- 3) Low Collector-Emitter Saturation Voltage
- 4) Complement types: FHBCX53 (PNP)

SOT-89



#### PIN ASSIGNMENT 引腳說明

PIN NAME 管腳符號	PIN NUMBER 引腳序號	FUNCTION 功能
	SOT-89	
B	1	BASE
C	2	COLLECTOR
E	3	EMITTER

#### MAXIMUM RATINGS (T<sub>a</sub>=25°C) 最大額定值

CHARACTERISTIC 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Collector-Emitter Voltage 集電極-發射極電壓	V <sub>CEO</sub>	80	Vdc
Collector-Base Voltage 集電極-基極電壓	V <sub>CBO</sub>	100	Vdc
Emitter-Base Voltage 發射極-基極電壓	V <sub>EBO</sub>	5	Vdc
Collector Current (DC) 集電極電流-直流	I <sub>C</sub>	1	Adc
Peak Collector Current 集電極峰值電流	I <sub>CM</sub>	1.5	Adc
Base Current 基極電流	I <sub>B</sub>	100	mA
Peak Base Current 基極峰值電流	I <sub>BM</sub>	200	mA
Total Power Dissipation 耗散功率	P <sub>tot</sub>	1	W
Junction and Storage Temperature 結溫和儲存溫度	T <sub>J</sub> T <sub>stg</sub>	150 , -55 ~ 150	°C

#### DEVICE MARKING 打標

FHBCX56=BH(40~250)

#### ELECTRICAL CHARACTERISTICS 電特性

(T<sub>A</sub>=25°C unless otherwise noted 如無特殊說明，溫度為 25°C)

Characteristic 特性參數	Symbol 符號	Test Condition 測試條件	Min 最小值	Type 典型值	Max 最大值	Unit 單位
Collector-Emitter Breakdown Voltage 集電極-發射極擊穿電壓	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-10mA,	80	—	—	V
Collector-Base Breakdown Voltage 集電極-基極擊穿電壓	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-100μA	100	—	—	V
Emitter-Base Breakdown Voltage 發射極-基極擊穿電壓	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-10μA	5.0	—	—	V
Collector Cutoff Current 集電極截止電流	I <sub>CBO</sub>	V <sub>CB</sub> =30V, I <sub>E</sub> =0	—	—	100	nA
Emitter Cutoff Current 發射極截止電流	I <sub>EBO</sub>	V <sub>EB</sub> =4V, I <sub>C</sub> =0	—	—	20	nA
DC Current Gain 直流電流增益	h <sub>FE2</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =150mA	40	—	250	
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA	—	—	500	mV
Transition Frequency 特徵頻率	f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA, f=20MHZ	—	130	—	MHZ