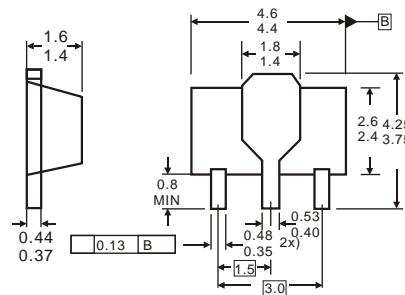


## Features

- ◊ For AF driver and output stages
- ◊ High collector current
- ◊ Low collector-emitter saturation voltage
- ◊ Complementary types: BCX51...BCX53(PNP)

## SOT-89



Dimensions in inches and (millimeters)

## Ordering Information

Type No.	Marking	Package Code
BCX54	BA	SOT-89
BCX54-10	BC	SOT-89
BCX54-16	BD	SOT-89
BCX55	BE	SOT-89
BCX55-10	BG	SOT-89
BCX55-16	BM	SOT-89
BCX56	BH	SOT-89
BCX56-10	BK	SOT-89
BCX56-16	BL	SOT-89

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

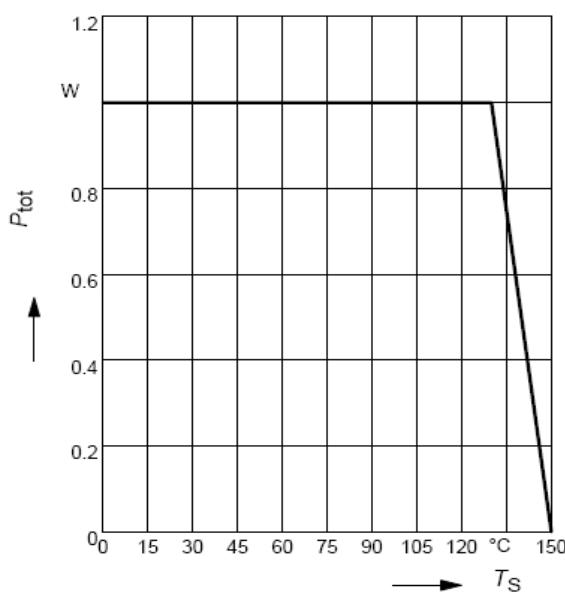
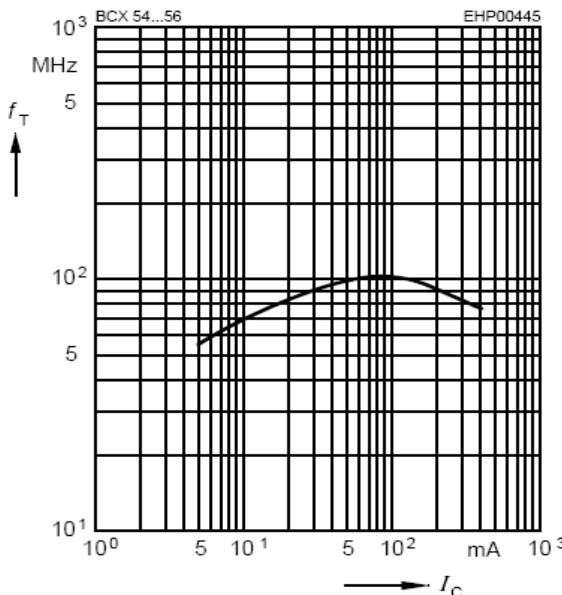
Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	BCX54 45	
		BCX55 60	V
		BCX56 100	
V <sub>CEO</sub>	Collector-Emitter Voltage	BCX54 45	
		BCX55 60	V
		BCX56 80	
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	DC Collector Current	1	A
I <sub>CM</sub>	Peak Collector Current	1.5	A
I <sub>B</sub>	Base current	100	mA
I <sub>BM</sub>	Peak base current	200	mA
P <sub>tot</sub>	Total power dissipation, T <sub>S</sub> =130°C	1	W
T <sub>j</sub> , T <sub>stg</sub>	Junction and Storage Temperature	-65 to +150	°C



## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

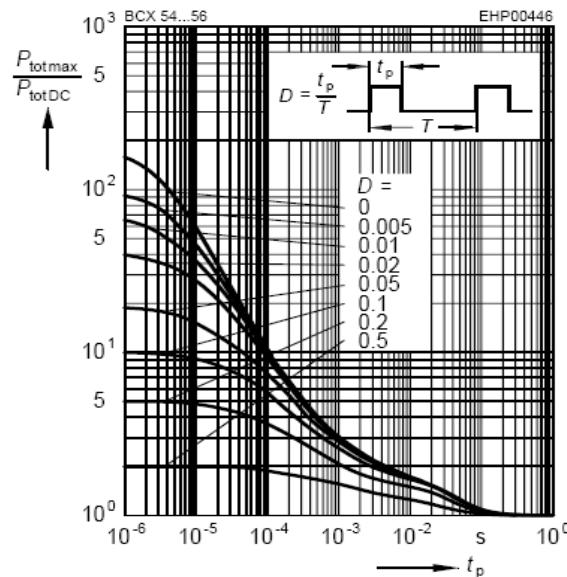
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100µA I <sub>B</sub> =0 BCX54 BCX55 BCX56	45 60 100		V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =10mA I <sub>B</sub> =0 BCX54 BCX55 BCX56	45 60 80		V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =10µA I <sub>C</sub> =0	5		V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =30V I <sub>E</sub> =0		100	nA
		V <sub>CB</sub> =30V I <sub>E</sub> =0, T <sub>A</sub> =150°C		20	µA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> =2V I <sub>C</sub> =5mA	25		
		V <sub>CE</sub> =2V I <sub>C</sub> =150mA	40	250	
		V <sub>CE</sub> =2V I <sub>C</sub> =500mA	25		
		V <sub>CE</sub> =2V I <sub>C</sub> =150mA	-10 -16	63 100	160 250
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA I <sub>B</sub> =50mA		0.5	V
Base-emitter voltage	V <sub>BE</sub>	I <sub>C</sub> =500mA, V <sub>CE</sub> =2V		1	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA, f=20MHz	100		MHz

## TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Total power dissipation  $P_{tot} = f(T_S)$ Transition frequency  $f_T = f(I_C)$ V<sub>CE</sub> = 10V

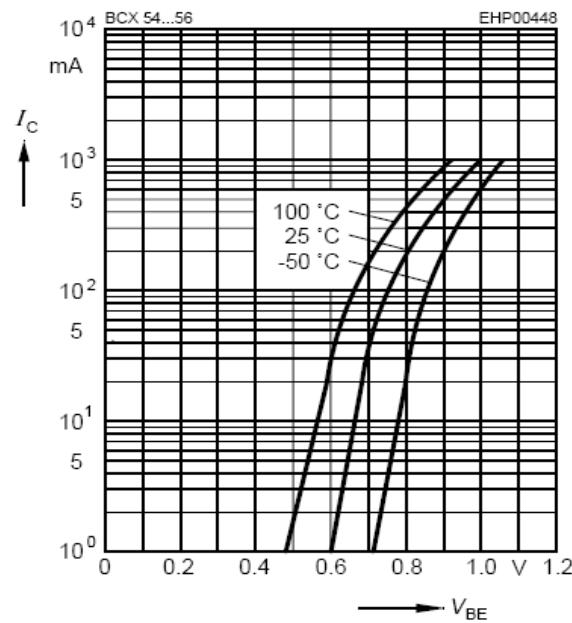
### Permissible pulse load

$$P_{\text{totmax}} / P_{\text{totDC}} = f(t_p)$$



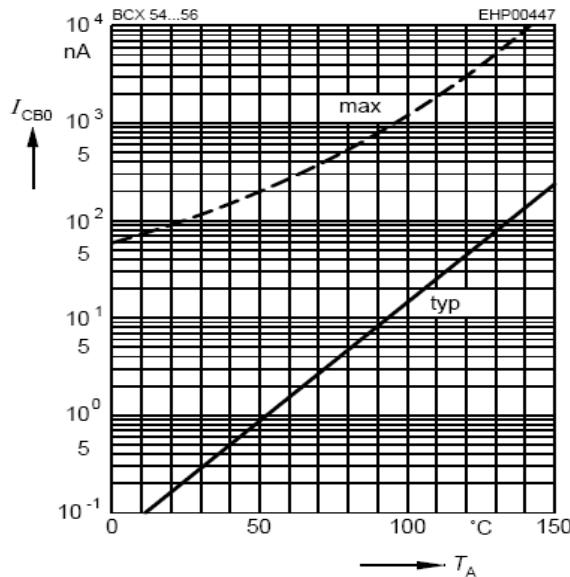
### Collector current $I_C = f(V_{BE})$

$$V_{CE} = 2V$$



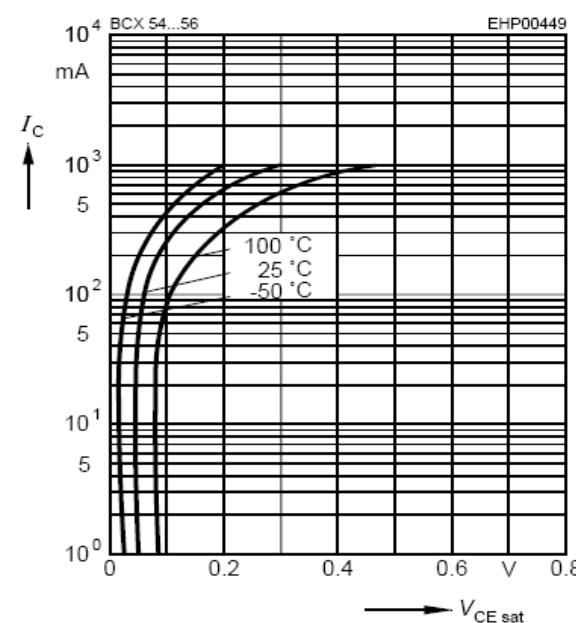
### Collector cutoff current $I_{CBO} = f(T_A)$

$$V_{CB} = 30V$$



### Collector-emitter saturation voltage

$$I_C = f(V_{CE\text{sat}}), h_{FE} = 10$$



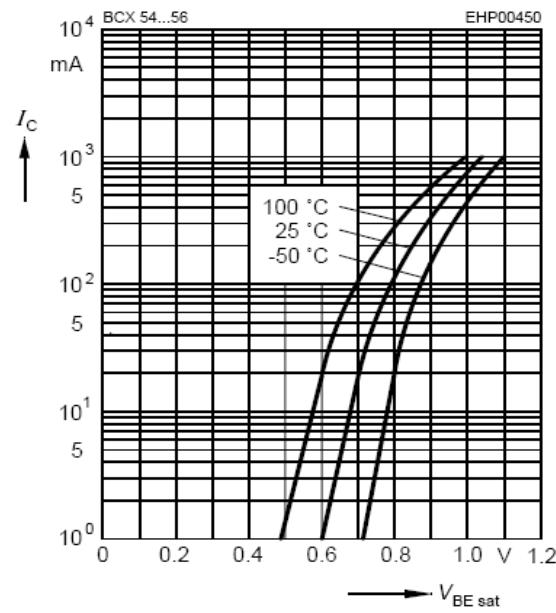
# BCX54-BCX56

NPN Silicon AF Transistors



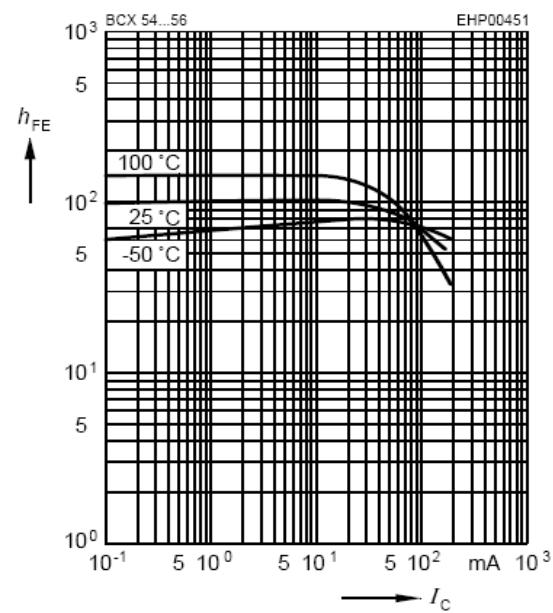
## Base-emitter saturation voltage

$$I_C = f(V_{BEsat}), h_{FE} = 10$$



## DC current gain $h_{FE} = f(I_C)$

$$V_{CE} = 2V$$



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