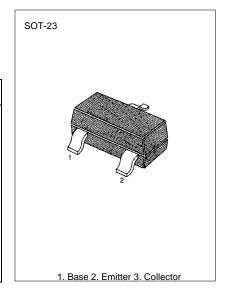
NPN EPITAXIAL SILICON TRANSISTOR

SWITCHING AND AMPLIFIER APPLICATIONS

- Suitable for automatic insertion in thick and thin-film circuits
- LOW NOISE: BC849, BC850 • Complement to BC856 ... BC860

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}		
: BC846		80	V
: BC847/850		50	V
: BC848/849		30	V
Collector Emitter Voltage	V_{CEO}		
: BC846		65	V
: BC847/850		45	V
: BC848/849		30	V
Emitter-Base Voltage	V_{EBO}		
: BC846/847		6	V
: BC848/849/850		5	V
Collector Current (DC)	Ic	100	mA
Collector Dissipation	Pc	310	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65 ~ 150	°C



ELECTRICAL CHARACTERISTICS (T_A=25°C)

Charac	teristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Cut-off Current DC Current Gain Collector Emitter Saturation Voltage Collector Base Saturation Voltage Base Emitter On Voltage		I_{CBO} h_{FE} V_{CE} (sat) V_{BE} (sat) V_{BE} (on)	$\begin{array}{c} V_{CB}{=}30V,\ I_{E}{=}0 \\ V_{CE}{=}5V,\ I_{C}{=}2mA \\ I_{C}{=}10mA,\ I_{B}{=}0.5mA \\ I_{C}{=}10mA,\ I_{B}{=}5mA \\ I_{C}{=}10mA,\ I_{B}{=}5mA \\ V_{CE}{=}5V,\ I_{C}{=}2mA \\ V_{CE}{=}5V,\ I_{C}{=}10mA \\ V_{CE}{=}5V,\ I_{C}{=}10mA \\ \end{array}$	110 580	90 200 700 900 660	15 800 250 600 700 720	nA mV mV mV mV MHz
Current Gain Bandwidth Product Collector Base Capacitance Emitter Base Capacitance Noise Figure : BC846/847/848 : BC849/850 : BC849 : BC850		C _{CBO} C _{EBO} NF	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		300 3.5 9 2 1.2 1.4 1.4	6 10 4 4 3	pF pF dB dB dB dB

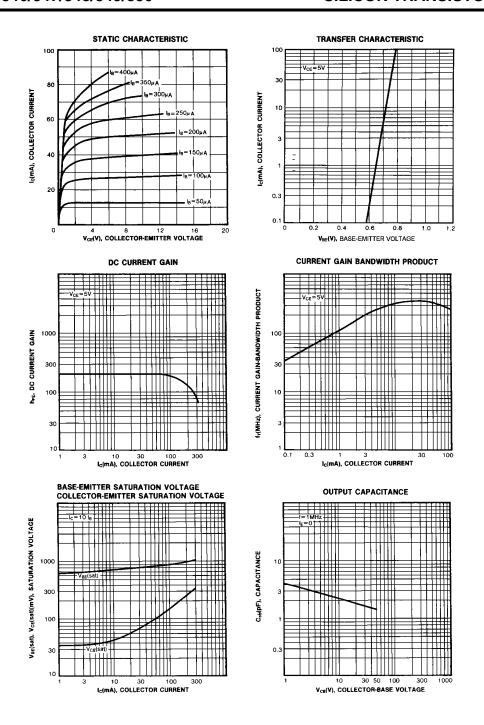
h_{FE} CLASSIFICATION

Classification	Α	В	С		
h _{FE}	110-220	200-450	420-800		

MARKING CODE

TYPE	846A	846B	846C	847A	847B	847C	848A	848B	848C	849A	849B	849C	850A	850B	850C
MARK	8AA	8AB	8AC	8BA	8BB	8BC	8CA	8CB	8CC	8DA	8DB	8DC	8EA	8EB	8EC







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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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