isc Silicon NPN Plastic-Encapsulate Transistors BC847

DESCRIPTION

- DC Current Gain-
  : h_{FE}=110-800 @I_C= 2mA
- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= 45V(Min.)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Ideally suited for automatic insertion.
- For switching and AF amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	45	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	0.1	A
P_C	Collector Power Dissipation @T_C=25℃	0.2	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65~150	℃

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= 10mA; I_B= 0	45		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 10 μ A; I_E= 0	50		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 10 μ A; I_C= 0	6		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 100mA; I_B= 5mA		0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 100mA; I_B= 5mA		1.1	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 50V; I_E= 0		0.1	μ A
I_{CEO}	Collector Cutoff Current	V_{CE}= 45V; I_B= 0		0.1	μ A
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C= 0		0.1	μ A
h_{FE}	DC Current Gain	I_C= 2mA; V_{CE}= 5V	110	800	

◆ **h_{FE} Classifications**

BC847A	BC847B	BC847C
110-220	200-450	420-800

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