

BC807 SOT-23 Plastic-Encapsulate Transistors (PNP)

General description

SOT-23 Plastic-Encapsulate Transistors (PNP)

FEATURES

- · Complementary to BC817
- Power Dissipation of 300mW
- High Stability and High Reliability
- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any



DEVICE MARKING CODE:

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	-50	V
Collector-Emitter Voltage	Vceo	-45	V
Emitter -Base Voltage	VEBO	-5	V
Collector Current-Continuous	Ic	-500	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature	Tstg	-55-+150	$^{\circ}$
Thermal resistance From junction to ambient	Rеја	417	°C/W

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

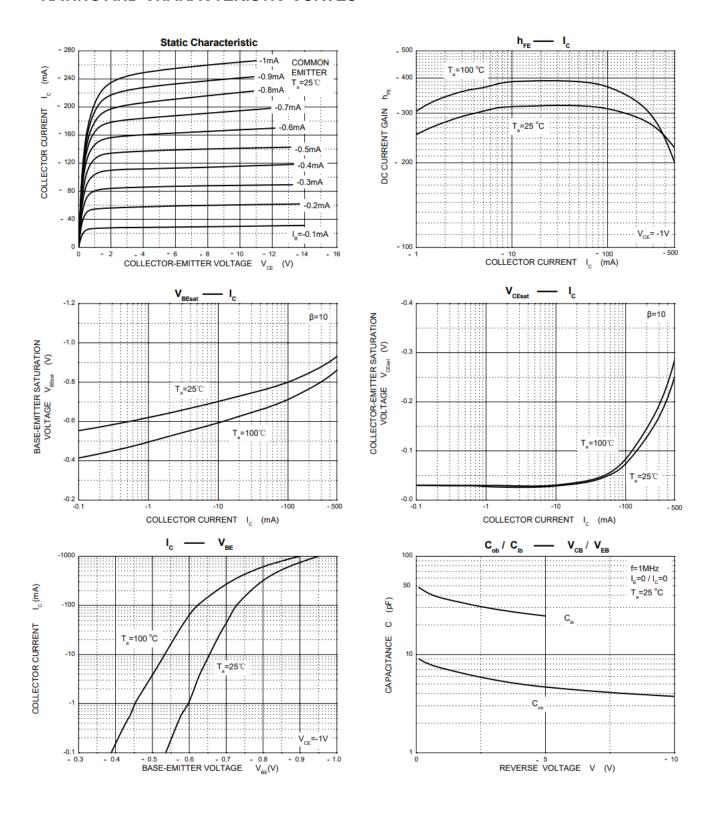
Parameter	Symbolo	Test Condition	Limits		Unit
Farameter	Symbols	s rest Condition		Max	
Collector-base breakdown voltage	V(BR)CBO	IC=-10uA, IE=0	-50		٧
Collector-emitter breakdown voltage	V(BR)CEO	IC=-10mA, IB=0	-45		٧
Emitter-base breakdown voltage	V(BR)EBO	IE=-1uA, IC=0	-5		V
Collector cut-off current	Ісво	VCB=-45V, IE=0		-100	nA
Emitter cut-off current	IEBO	VEB=-4V, IC=0		-100	nA
DC current gain	hFE(1)	VCE=-1V, IC=-100mA	100	600	
	hFE(2)	VCE=-1V, IC=-500mA	40		
Collector-emitter saturation voltage	VCE(sat)	IC=-500mA, IB=-50mA		-0.70	V
Base -emitter saturation voltage	VBE(sat)	IC=-500mA, IB=-50mA		-1.20	V
Transition frequency	fτ	VCE=-5V, IC=-10mA,f=100MHz	100		MHz

CLASSIFICATION OF hFE(1)

RANK	BC807-16	BC807-25	BC807-40
RANGE	100-250	160-400	250-600
Marking	5A	5B	5C

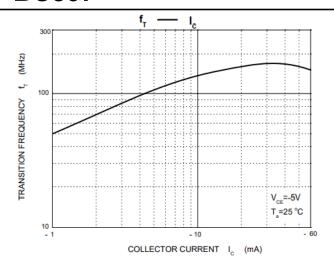


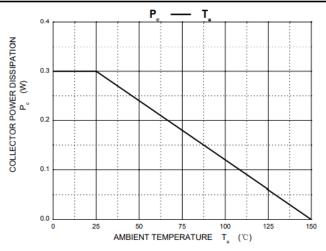
RATING AND CHARACTERISTIC CURVES



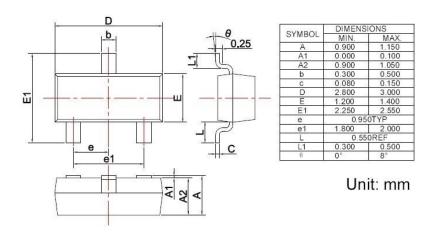
BC807





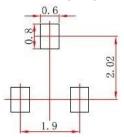


SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Precautions: PCB Design

Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



- Note:
 1.Controlling dimension:in millimeters.
 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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