

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 BC807-16W BC807-25W BC807-40W

Features

- Capable of 0.2Watts of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 50V
- Operating and storage junction temperature range: -55°C to +150°C
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

PNP Silicon General Purpose Transistors

Mechanical Data

- Case: SOT-323 Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Weight: 0.005 grams (approx.)
- Device Marking: BC807-16W 5A

BC807-25W 5B BC807-40W 5C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (b=10mAdc, l _B =0)	45		Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (b=10uAdc, I _E =0)	50		Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (_E =1.0uAdc, I _C =0)	5.0		Vdc	
Сво	Collector Cutoff Current (V _{CB} =20Vdc,I _E =0)		0.1	uAdc	
I _{CEO}	Collector Cutoff Current (V _{CE} =20V dc,I _B =0)		0.2	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, I _C =0)		0.1	uAdc	
ON CHARACTERISTICS					
h _{FE(1)}	DC Current Gain (I _c =100mAdc, V _{CE} =1.0Vdc) BC807-16W BC807-25W BC807-40W	100 160 250	250 400 600	 	
h _{FE(2)}	DC Current Gain (I _C =500mAdc, V _{CE} =1.0Vdc)	40			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =500mAdc, I _B =50mAdc)		0.7	Vdc	
V _{BE(on)}	Base-Emitter Voltage (I _C =500mAdc,V _{CE} =1Vdc)		1.2	Vdc	
SMALL SIGNAL CHARACTERISTICS					

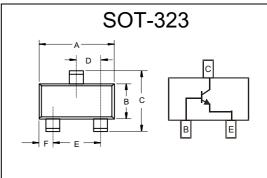
Current-Gain-Bandwidth Product

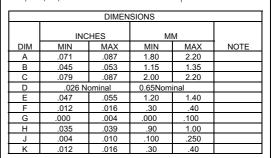
Collector output capacitance

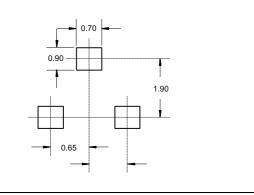
(V_{CB}=10V, f=1MHz)

 C_{ob}

 $(V_{CF}=5.0V, f=100MHz, I_{C}=10mA)$







10

MHz

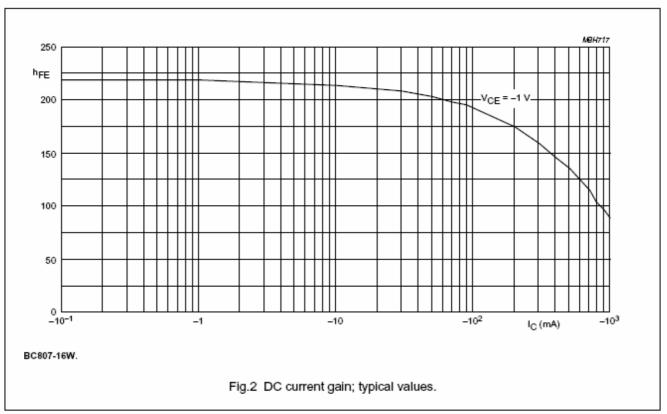
рF

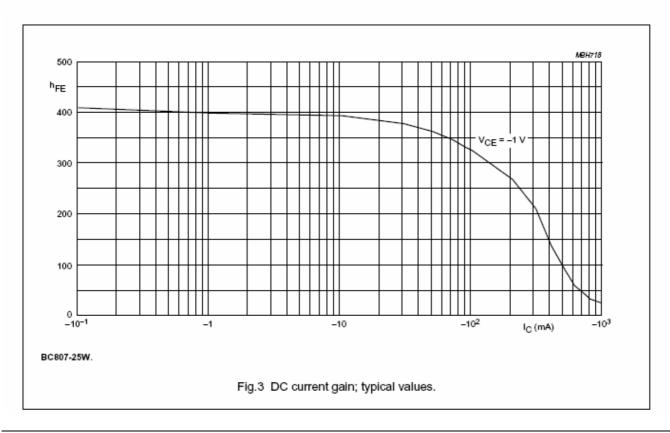
80

BC807-16W thru BC807-40W



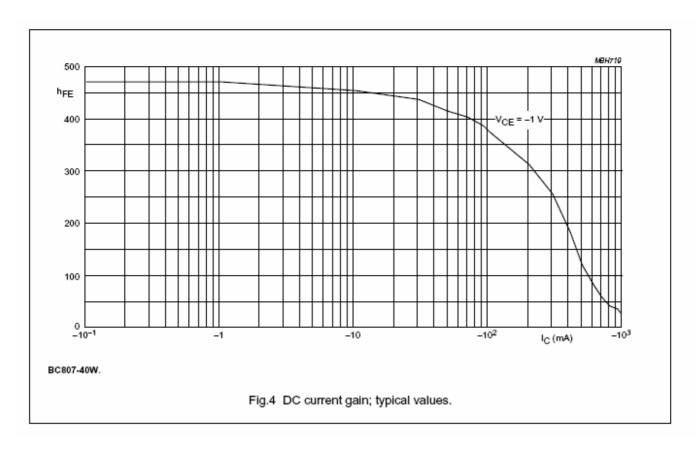
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BC807-16W thru BC807-40W







Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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