



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components
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BC857BM

PNP Plastic-Encapsulate Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Current
- Low Voltage
- Ultra-small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:D2

Maximum Ratings @ 25°C Unless Otherwise Specified

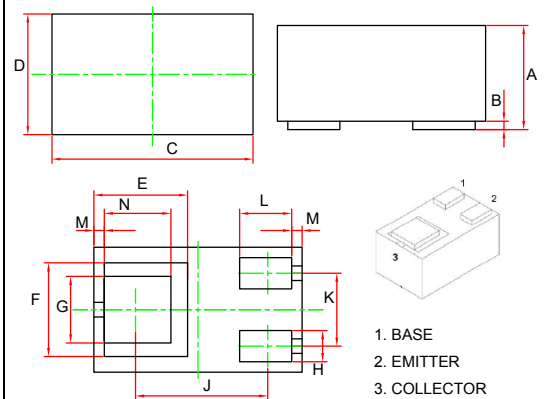
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{CBO}	Collector-Base Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current	-100	mA
R _{θJA}	Thermal Resistance Junction to Ambient	1250	°C/W
T _J	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0)	-45	---	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-10mA, I _E =0)	-50	---	---	Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =-10mA, I _C =0)	-6	---	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =-30Vdc, I _E =0Vdc)	---	---	-15	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5Vdc, I _C =0Vdc)	---	---	-15	nAdc
h _{FE}	DC Current Gain (I _C =-2mA, V _{CE} =-5Vdc)	220	---	475	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage * (I _C =-10mA, I _B =-0.5mA) (I _C =-100mA, I _B =-5mA)	---	---	-200 -400	mVdc
V _{BE(sat)}	Base-Emitter Saturation Voltage * (I _C =-10mA, I _B =-0.5mA) (I _C =-100mA, I _B =-5mA)	---	-700 -900	---	mVdc
V _{BE}	Base-Emitter Voltage * (I _C =-2mA, V _{CE} =-5Vdc) (I _C =-10mA, V _{CE} =-5Vdc)	---	---	-700 -770	mVdc
f _T	Transition Frequency (V _{CE} =-5Vdc, I _C =-10mA, f=100MHz)	100	---	---	MHz
C _{ob}	Output Capacitance (V _{CB} =-10Vdc, f=1.0MHz, I _E =0)	---	2.5	---	pF
NF	Noise Figure (V _{CE} =-5V, I _E =-0.2mA, f=1KHz, R _S =1kΩ, B=200Hz)	---	10	---	dB

*Pulse test: pulse width ≤300μs, duty cycles ≤2.0%.

SOT-883

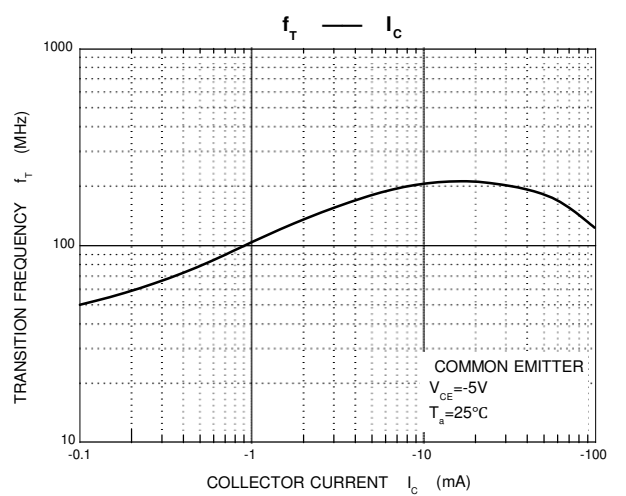
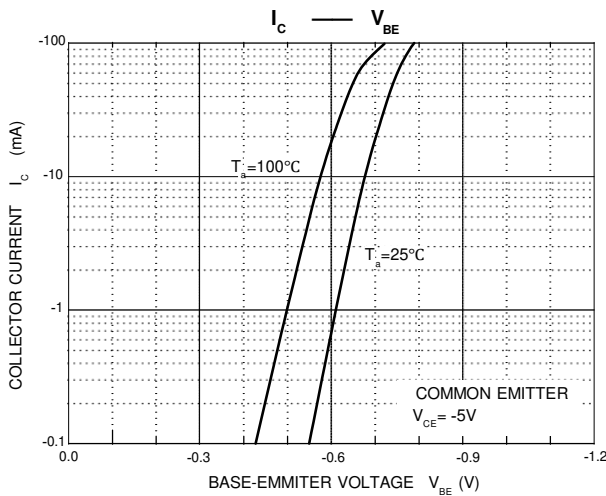
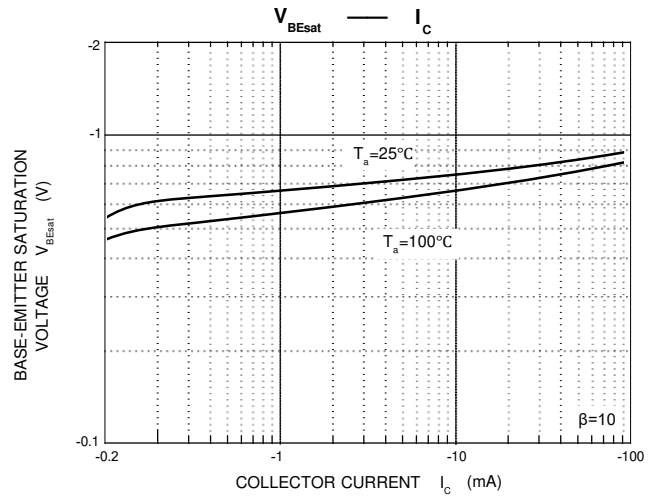
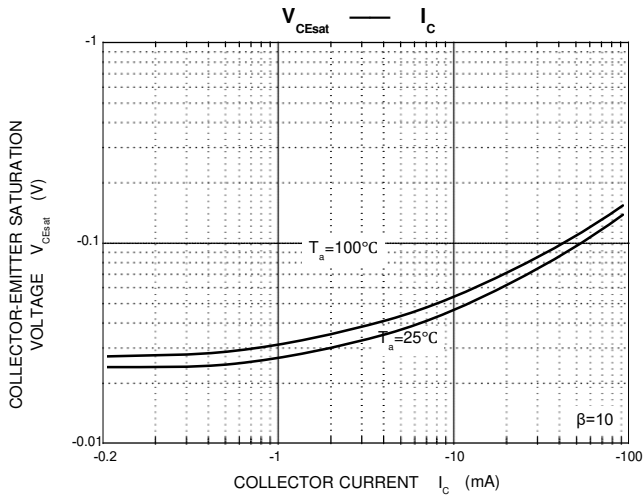
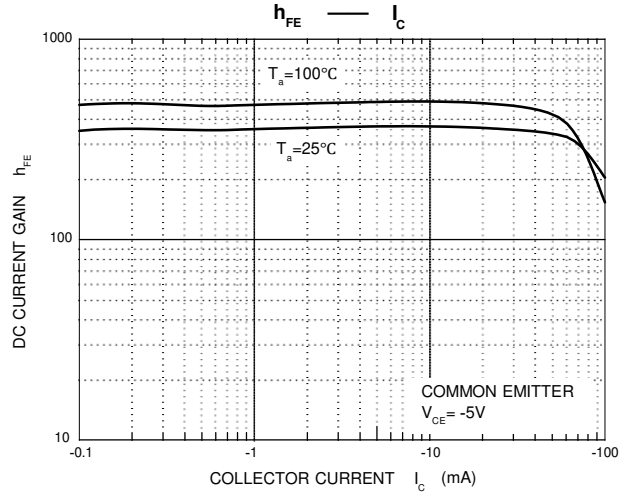
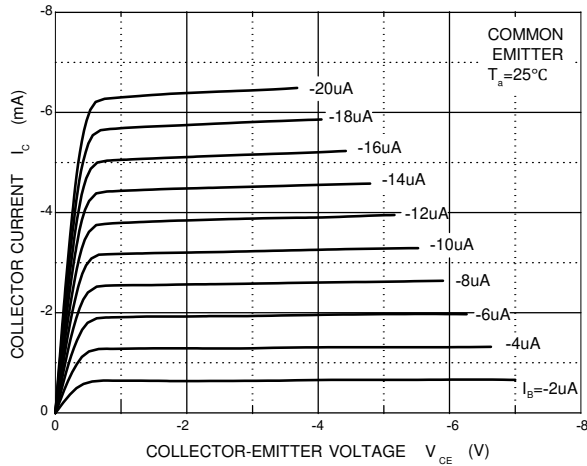


DIMENSIONS

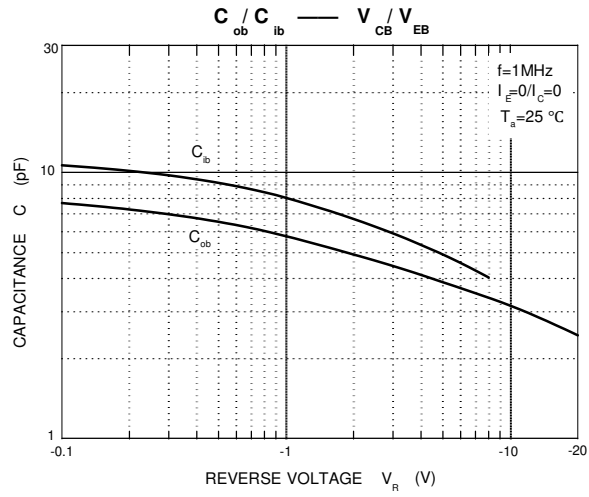
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.450	0.550	
B	0.000	0.004	0.010	0.100	
C	0.037	0.041	0.950	1.050	
D	0.022	0.026	0.550	0.650	
E	0.018REF.		0.450REF.		
F	0.018REF.		0.450REF.		
G	0.011	0.015	0.270	0.370	
H	0.004	0.008	0.100	0.200	
J	0.025REF.		0.635REF.		
K	0.012	0.016	0.300	0.400	
L	0.008	0.012	0.200	0.300	
M	0.002REF.		0.050REF.		
N	0.011	0.015	0.270	0.370	

Typical Characteristics

Static Characteristic



Typical Characteristics





Ordering Information :

Device	Packing
Part Number-TP	Tape & Reel; 10Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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