



Micro Commercial Components



Micro Commercial Components  
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## BC856BM

## PNP Plastic-Encapsulate Transistors

## SOT-883

### Features

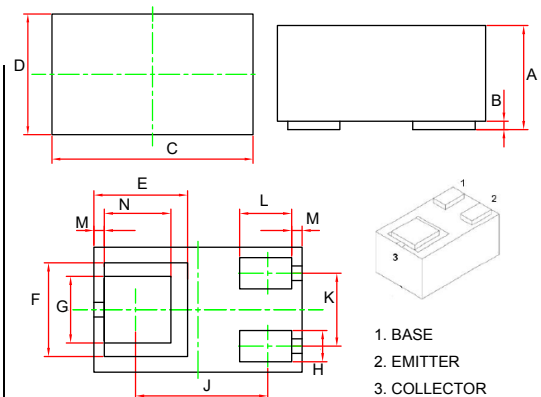
- Halogen free available upon request by adding suffix "-HF"
- Low Current
- Low Voltage
- Ultra-small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:D1

### Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
$V_{CE0}$	Collector-Emitter Voltage	-65	V
$V_{CBO}$	Collector-Base Voltage	-80	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current	-100	mA
$R_{JA}$	Thermal Resistance Junction to Ambient	625	°C/W
$T_J$	Operating Junction Temperature	-55 to +150	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

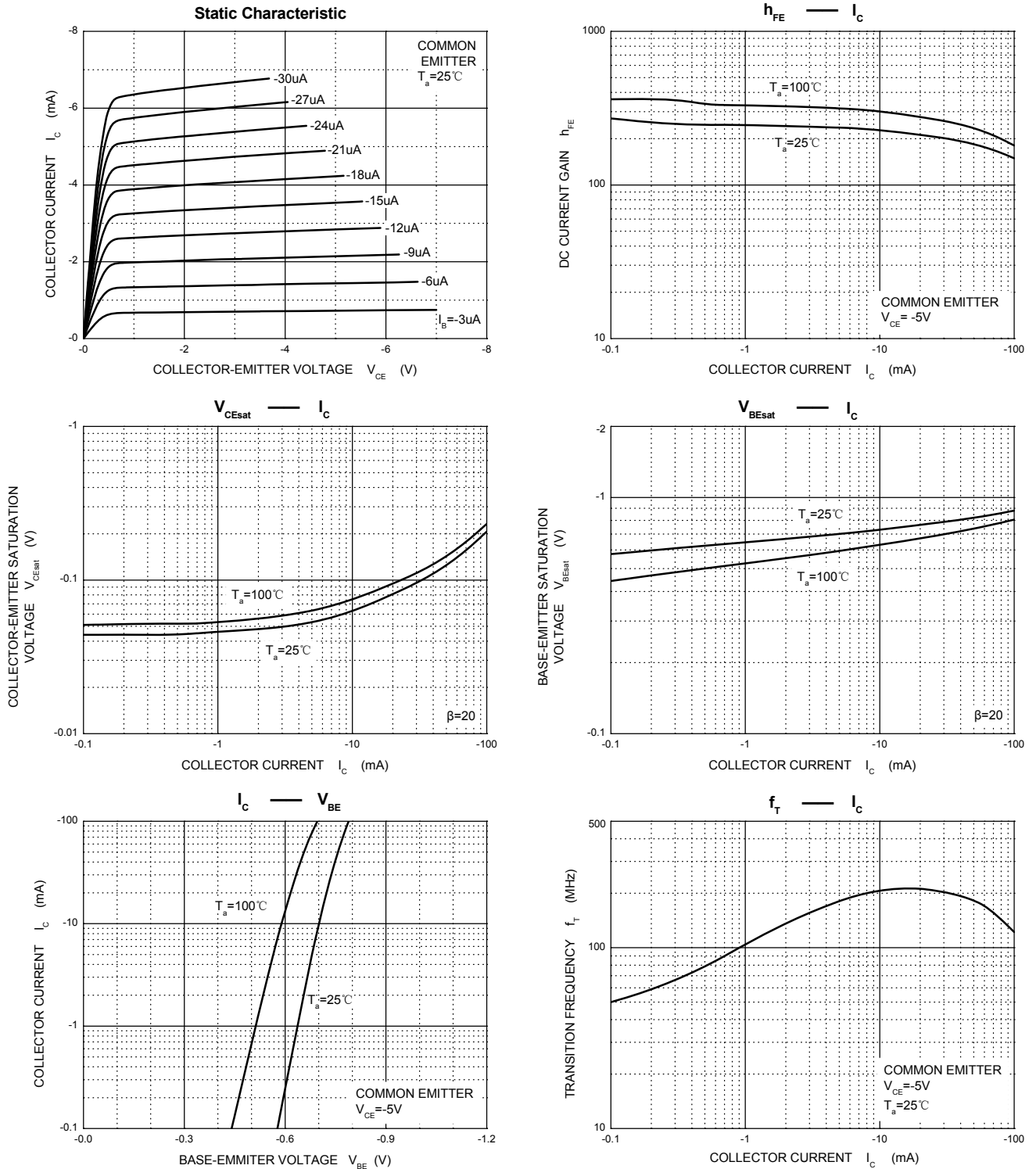
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=-10mA$ , $I_E=0$ )	-65	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=-10\mu A$ , $I_E=0$ )	-80	---	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ( $I_E=-1\mu A$ , $I_C=0$ )	-5	---	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=-70Vdc$ , $I_E=0Vdc$ )	---	---	-100	nAdc
$I_{CEO}$	Collector Cutoff Current ( $V_{CB}=-60Vdc$ , $I_B=0Vdc$ )	---	---	-100	nAdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=-5Vdc$ , $I_C=0Vdc$ )	---	---	-0.1	$\mu A$ dc
$h_{FE}$	DC Current Gain ( $I_C=-2mA$ , $V_{CE}=-5Vdc$ )	220	---	475	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=-100mA$ , $I_B=-5mA$ )	---	---	-0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=-100mA$ , $I_B=-5mA$ )	---	---	-1.1	Vdc
$f_T$	Transition Frequency ( $V_{CE}=-5Vdc$ , $I_C=-10mA$ , $f=100MHz$ )	100	---	---	MHz
$C_{ob}$	Collector Capacitance ( $V_{CB}=-10Vdc$ , $f=1.0MHz$ , $I_E=0$ )	---	---	4.5	pF

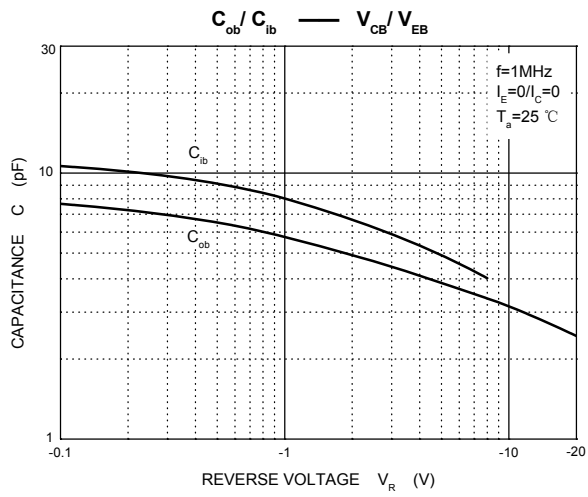


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.450	0.550	
B	0.000	0.004	0.010	0.100	
C	0.037	0.041	0.950	1.050	
D	0.022	0.026	0.550	0.650	
E	0.018REF.		0.450REF.		
F	0.018REF.		0.450REF.		
G	0.011	0.015	0.270	0.370	
H	0.004	0.008	0.100	0.200	
J	0.025REF.		0.635REF.		
K	0.012	0.016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



## 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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