

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **BC847BM**

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
- Moisure Sensitivity Level 1
- Marking:D5

Maximum Ratings @ 25°C Unless Otherwise Specified

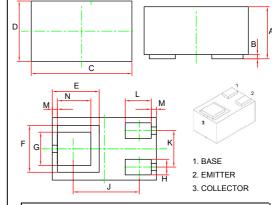
Symbol	Rating	Rating	Unit	
V_{CEO}	Collector-Emitter Voltage	45 V		
V_{CBO}	Collector-Base Voltage 50		V	
V_{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current	0.1	Α	
R ₀ JA	Thermal Resistance Junction to Ambient	1250	°C/W	
T _J	Operating Junction Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$	
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0)	45			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage $(I_C=10\mu Adc, I_E=0)$	50			Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =1µAdc, 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 =2mAdc, V _{CE} =5Vdc)	220		475	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =10mAdc, I _B =0.5mAdc) (I _C =100mAdc, I _B =5mAdc)			200 400	mVdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =10mAdc, I _B =0.5mAdc) (I _C =100mAdc, I _B =5mAdc)		700 900		mVdc
V_{BE}	Base-Emitter Voltage (I _C =2mAdc, V _{CE} =5Vdc) (I _C =10mAdc, V _{CE} =5Vdc)			700 770	mVdc
f⊤	Transition Frequency (V _{CE} =5Vdc, I _C =10mAdc, f=100MHz)	100			MHz
C _{ob}	Output Capacitance (V _{CB} =10Vdc, f=1.0MHz, I _E =0)		2.5		pF
NF	Noise Figure $(V_{CE}=5V,I_{E}=0.2\text{mA},f=1\text{KHz},R_{S}=1\text{k}\Omega,B=200\text{Hz})$			10	dB

NPN Plastic-Encapsulate Transistors

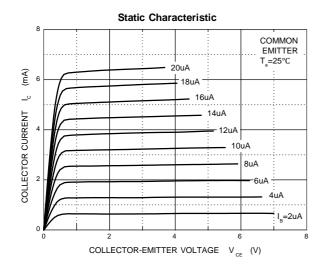


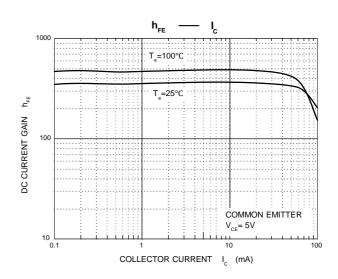


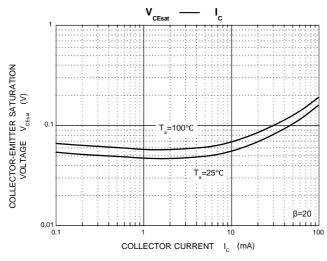
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.018	0.022	0.450	0.550	
В	0.000	0.004	0.010	0.100	
С	0.037	0.041	0. 950	1.050	
D	0.022	0.026	0.550	0.650	
Е	0. 018REF.		0. 450REF.		
F	0. 018REF.		0. 450REF.		
G	0.011	0.015	0.270	0.370	
Н	0.004	0.008	0.100	0.200	
J	0. 025REF.		0. 635REF.		
K	0.012	0.016	0.300	0.400	
L	0.008	0.012	0.200	0.300	
M	0.002REF.		0.08	50REF.	
N	0.011	0.015	0.270	0.370	

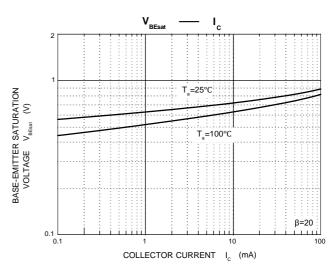


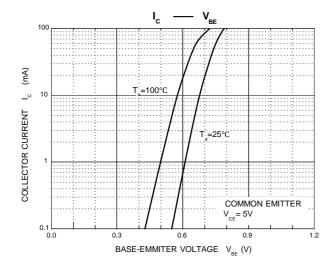
Typical Characteristics

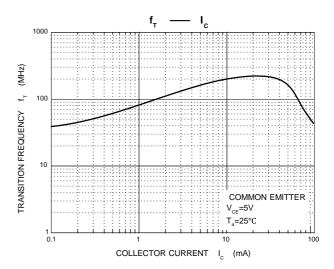






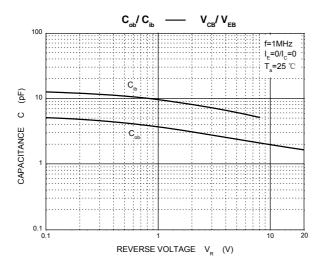








Typical Characteristics





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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