

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- Epitaxial Die Construction
- Complementary PNP Type Available (BC857BV)
- 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:K4V

Maximum Ratings @ 25°C Unless Otherwise Specified

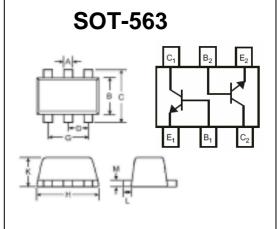
Symbol	Rating	Rating	Unit		
V _{CEO}	Collector-Emitter Voltage	45	V		
V _{CBO}	Collector-Base Voltage	50	V		
V _{EBO}	Emitter-Base Voltage	6	V		
lc	Collector Current-Continuous	0.1	Α		
Pc	Collector Dissipation	0.15	W		
R _{0JA}	Thermal Resistance Junction to Ambient	833	°C/W		
TJ	Operating Junction Temperature	-55 to +150	°C		
T _{STG}	Storage Temperature	-55 to +150	°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

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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 =10uAdc, I _E =0)	50			Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =1uAdc, 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)			100	nAdc
h _{FE}	DC Current Gain (I _C =2mAdc, V _{CE} =5Vdc)	200		450	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I_c =10mAdc, I_B =0.5mAdc) (I_c =100mAdc, I_B =5mAdc)			100 300	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 ($I_c=2mAdc, V_{cE}=5Vdc$) ($I_c=10mAdc, V_{cE}=5Vdc$)	580	660	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)			4.5	pF
NF	Noise Figure (V _{CE} =5V,BW=200Hz, f=1KHz, R _S =2k Ω)			10	dB

BC847BV

NPN Plastic-Encapsulate Transistors



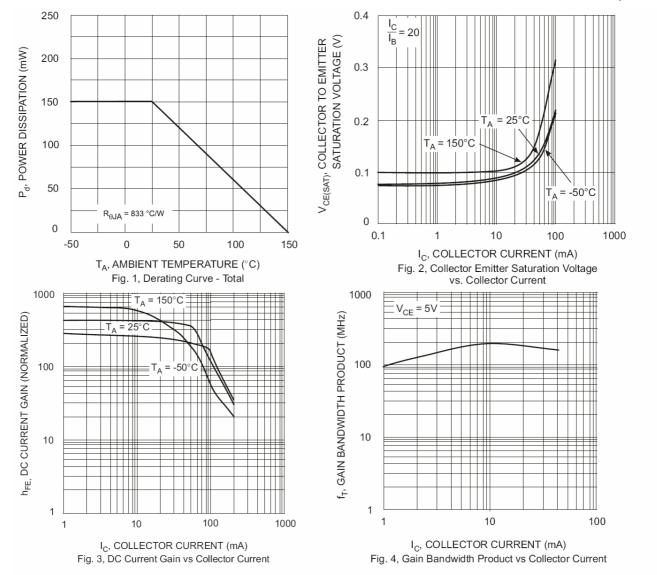
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.006	.011	0.15	0.30	
В	.043	.049	1.10	1.25	
С	.061	.067	1.55	1.70	
D	.02	0	0.	50	
G	.035	.043	0.90	1.10	
Н	.059	.067	1.50	1.70	
K	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
М	.004	.007	0.10	0.18	

www.mccsemi.com

BC847BV



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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

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