

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** 

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## BC857BV

## Features Halogen free available upon request by adding suffix "-HF" 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
- Epitaxial Die Construction
- Complementary NPN Type Available (BC847BV)
- Ultra-small Surface Mount Package
- Marking:K5V

## Maximum Ratings @ 25°C Unless Otherwise Specified

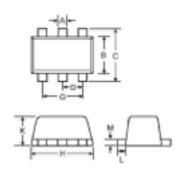
Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	-45	٧
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-0.1	Α
Pc	Collector Dissipation	0.15	W
R∘JA	Thermal Resistance Junction to Ambient	833	°C/W
TJ	Operating Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T <sub>STG</sub>	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

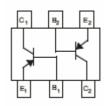
Symbol	Parameter		Тур	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =0)	-45			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage $(I_C=-10uAdc, I_E=0)$	-50			Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =-1uAdc, I <sub>C</sub> =0)	-6			Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-30Vdc, I <sub>E</sub> =0Vdc)15		nAdc		
h <sub>FE</sub>	DC Current Gain (I <sub>C</sub> =-2mAdc, V <sub>CE</sub> =-5Vdc)	200		475	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =-0.5mAdc) (I <sub>C</sub> =-100mAdc, I <sub>B</sub> =-5mAdc)			-0.1 -0.4	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I <sub>c</sub> =-10mAdc, I <sub>B</sub> =-0.5mAdc) (I <sub>c</sub> =-100mAdc, I <sub>B</sub> =-5mAdc)		-0.7 -0.9		Vdc
$V_{BE}$	Base-Emitter Voltage (I <sub>C</sub> =-2mAdc, V <sub>CE</sub> =-5Vdc) (I <sub>C</sub> =-10mAdc, V <sub>CE</sub> =-5Vdc)	-0.6 		-0.75 -0.82	Vdc
f⊤	Transition Frequency (V <sub>CE</sub> =-5Vdc, I <sub>C</sub> =-10mAdc, f=100MHz)	100			MHz
C <sub>ob</sub>	Output Capacitance (V <sub>CB</sub> =-10Vdc, f=1.0MHz, I <sub>E</sub> =0)			4.5	pF
NF	Noise Figure ( $V_{\text{CE}}$ =-5 $V_{\text{I}_{\text{C}}}$ =-0.2mA, f=1KHz, $R_{\text{S}}$ =2k $\Omega$ , BW=200Hz)			10	dB

# PNP Plastic-Encapsulate Transistors

## **SOT-563**



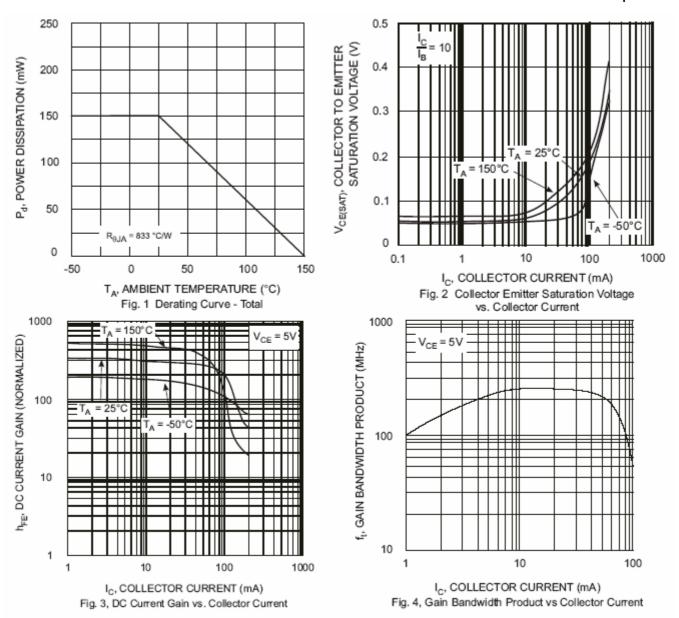
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.011	0.15	0.30	
В	.043	.049	1.10	1.25	
С	.061	.067	1.55	1.70	
D	.020		0.50		
G	.035	.043	0.90	1.10	
Н	.059	.067	1.50	1.70	
K	.022	.023	0.56	0.60	
Ĺ	.004	.011	0.10	0.30	
М	.004	.007	0.10	0.18	



## BC857BV



**Micro Commercial Components** 





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## **Ordering Information:**

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

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

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