

**Micro Commercial Components** 



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

## **Features**

- 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

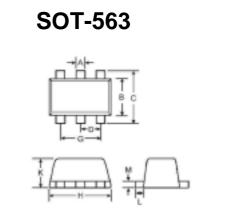
Symbol	Rating	Rating	Unit			
V <sub>CEO</sub>	Collector-Emitter Voltage	-45	V			
V <sub>CBO</sub>	Collector-Base Voltage	Base Voltage -50 V				
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V			
lc	Collector Current-Continuous	-0.1	Α			
Pc	Collector Dissipation	0.15	W			
R 🛛 JA	Thermal Resistance Junction to Ambient 833		°C/W			
TJ	Operating Junction Temperature -55 to +150		°C			
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C			

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

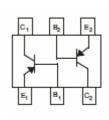
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Symbol	Parameter	Min	Тур	Max	Units
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>c</sub> =-10mAdc, I <sub>B</sub> =0)	-45			Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>c</sub> =-10uAdc, I <sub>E</sub> =0)	-50			Vdc
V <sub>(BR)EBO</sub>	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 <sub>BE(sat)</sub>	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 <sub>BE</sub>	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 <sub>T</sub>	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 $(V_{CE}$ =-5V,I <sub>C</sub> =-0.2mA, f=1KHz, R <sub>S</sub> =2k $\Omega$ , BW=200Hz)			10	dB

## BC857BV

## PNP Plastic-Encapsulate Transistors



	DIMENSIONS					
		INCHES		ММ		
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	.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		

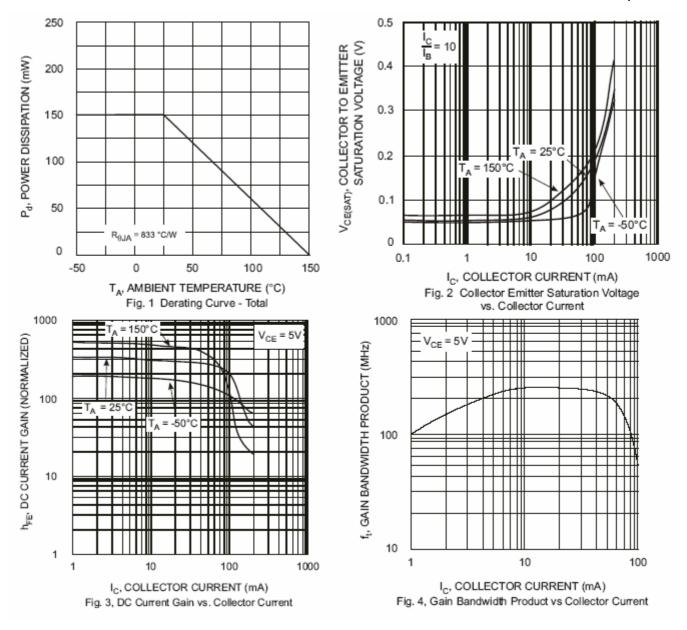


# www.mccsemi.com

## BC857BV



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### **Ordering Information :**

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

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