

Micro Commercial Components



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

### **Features**

- 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

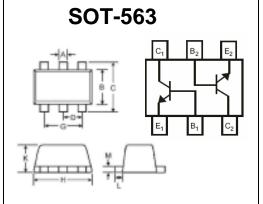
Symbol	Rating	Rating	Unit	
V <sub>CEO</sub>	Collector-Emitter Voltage	45	V	
V <sub>CBO</sub>	Collector-Base Voltage	50	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	0.1	A	
Pc	Collector Dissipation	0.15	W	
R₀ <sub>JA</sub>	Thermal Resistance Junction to Ambient	833	°C/W	
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
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>c</sub> =10uAdc, I <sub>E</sub> =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
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5Vdc, I <sub>C</sub> =0Vdc)			100	nAdc
h <sub>FE</sub>	DC Current Gain (I <sub>c</sub> =2mAdc, V <sub>ce</sub> =5Vdc)	200		450	
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)			100 300	mVdc
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)		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 <sub>CE</sub> =5Vdc, I <sub>C</sub> =10mAdc, f=100MHz)	100			MHz
$C_{ob}$	Output Capacitance (V <sub>CB</sub> =10Vdc, f=1.0MHz, I <sub>E</sub> =0)			4.5	pF
NF	Noise Figure (V <sub>CE</sub> =5V,BW=200Hz, f=1KHz, R <sub>S</sub> =2k Ω )			10	dB

## BC847BV

## NPN Plastic-Encapsulate Transistors



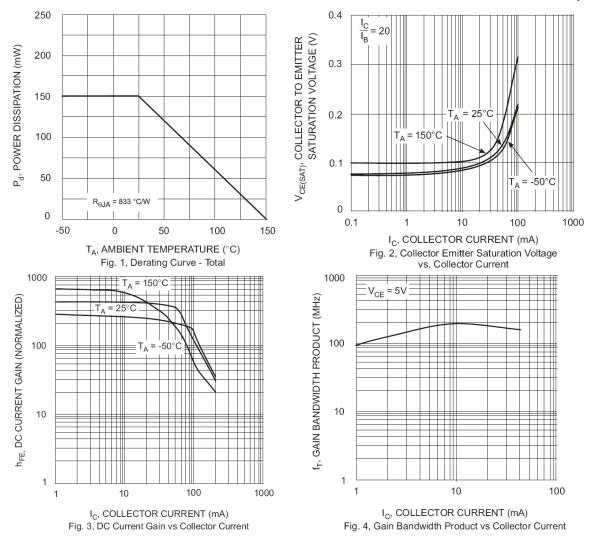
DIMENSIONS					
	INCH	ES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.011	0.15	0.30	
В	.043	.049	1.10	1.25	
С	.061	.067	1.55	1.70	
D	.02	0	0.	50	
G	.035	.043	0.90	1.10	
Н	.059	.067	1.50	1.70	
К	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
М	.004	.007	0.10	0.18	

# www.mccsemi.com

### BC847BV



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### **Revision: A**

Downloaded from Elcodis.com electronic components distributor



### **Ordering Information :**

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

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