

**Micro Commercial Components** 



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

### Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Ideally Suited for Automatic Insertion
- Ultra-Small Surface Mount Package
- For Switching and AF Amplifier Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking:1C

### **Mechanical Data**

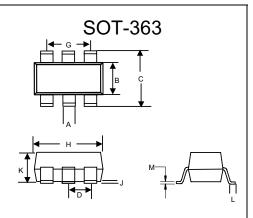
- Case: SOT-363, Molded Plastic
- Polarity: See Diagram

#### Maximum Ratings @ 25 $^{\circ}$ C Unless Otherwise Specified

Symbol	Parameter	Value	Units		
<b>OFF CHARA</b>	OFF CHARACTERISTICS				
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage 45		Vdc		
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	50	Vdc		
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	6.0	Vdc		
Ιc	Collector Current	100	mAdc		
I <sub>CM</sub>	Peak Collector Current	200	mAdc		
P <sub>d</sub>	Power Dissipation @ T <sub>A</sub> =25°C	300	mW		
T <sub>J</sub> , T <sub>STG</sub>	Operating & Storage Temperature	-55~+150	°C		

## **BC847BS**

## **Dual NPN Small Signal Transistor** 300mW



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
J		.004		0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
М	.003	.006	0.08	0.15	



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#### Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

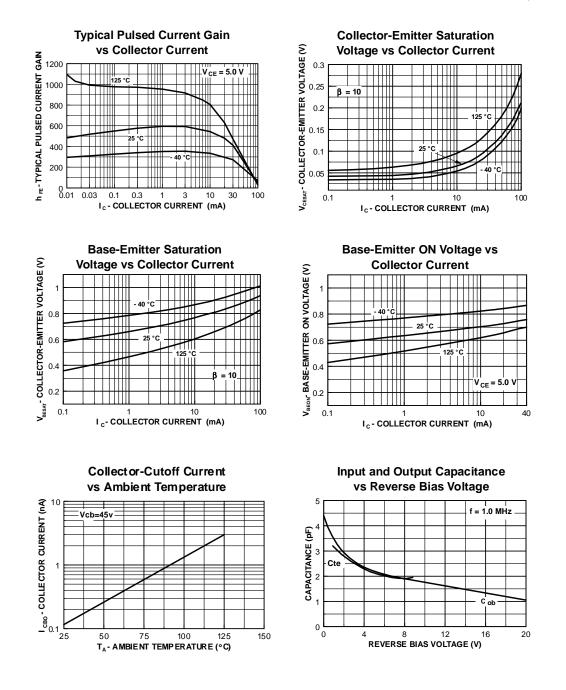
Symbol	Parameter	Min	Тур	Max	Units	Test Condition
<b>OFF CHARA</b>	CTERISTICS					
h <sub>FE</sub>	DC Current Gain	200		450		V <sub>CE</sub> =5.0V, I <sub>C</sub> =2.0mA
V <sub>CE(SAT)</sub>	Collector-Emitter Saturation Voltage			250 650	mV	I <sub>C</sub> =10mA, I <sub>B</sub> =0.5mA I <sub>C</sub> =100mA, I <sub>B</sub> =5.0mA
V <sub>BE(ON)</sub>	Base-Emitter Voltage	580	665	700	mV	V <sub>CE</sub> =5.0V, I <sub>C</sub> =2.0mA
I <sub>CBO</sub>	Collector-Cutoff Current			15	nA	$V_{CB}$ =30V, I <sub>E</sub> =0
f <sub>T</sub>	Gain Bandwidth Product		200		MHz	V <sub>CE</sub> =5.0V, I <sub>C</sub> =10mA, f=100MHz
COB	Collector-output Capacitance		2		pF	V <sub>CB</sub> =10V, f=1.0MHz



# BC847BS



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**Revision:** A

2011/01/01

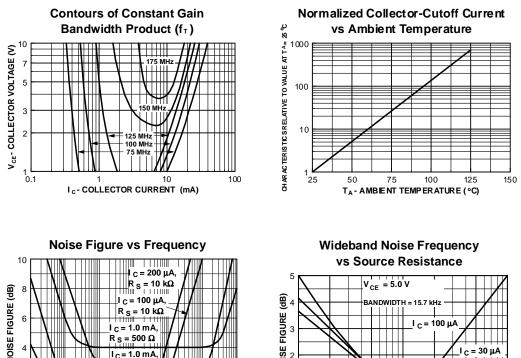


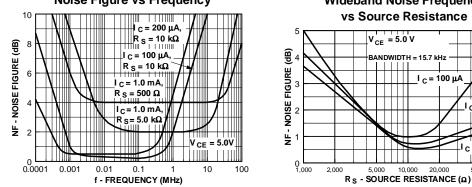


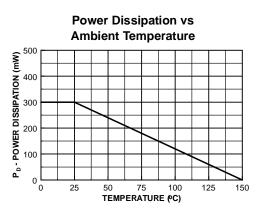
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 $c = 10 \,\mu A$ 

50,000 100,000







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2011/01/01



#### **Ordering Information :**

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

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