



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **BC857S**

Features

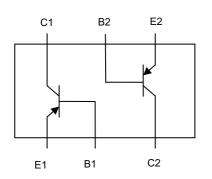
- # Multi-chip Transistor
- # Ultra-Small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Mechanical Data

Case: SOT-363
Marking: 3C

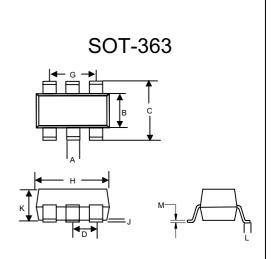
Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Parameter	Value	Units		
OFF CHARACTERISTICS					
I _{CM}	Peak Collector Current -200 m/				
V(BR)CBO	Collector-base Voltage	-50	V		
P _d	Power Dissipation @ T _A =25℃	300	mW		
T _J , T _{STG}	Operating & Storage Temperature	-55~+150	°C		



BC857S Structure schematic diagram

PNP Plastic-Encapsulate Transistors 300mW



DIMENSIONS					
	INCHES		MM		
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	.02	6	0.65N	ominal	
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	
M	003	006	0.08	0.15	

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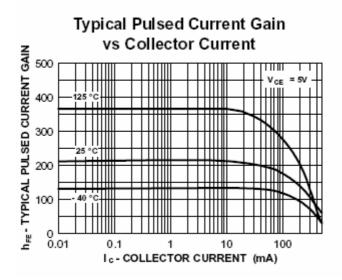


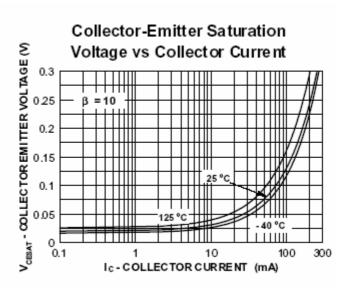
ELECTRICAL CHARACTERISTICS(Tamb=25 unless otherwise specified)

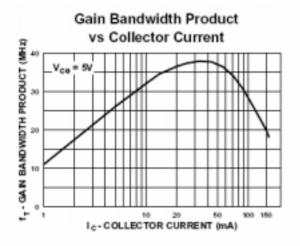
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	Ic=-10μA,I _E =0	-50			٧
Collector-emitter breakdown voltage	V _{(BR)CEO}	Ic=-10mA,I _B =0	-45			٧
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-15	nA
DC current gain	h _{FE}	V_{CE} =-5V, I_{C} =-2mA	125		630	
Collector emitter esturation valtage	V _{CE(sat)(1)}	I _C =-10mA,I _B =-0.5mA			-0.3	V
Collector-emitter saturation voltage	V _{CE(sat)(2)}	I _C =-100mA,I _B =-5mA			-0.65	\
Page emitter voltage	V _{BE(1)}	V _{CE} =-5V,I _C =-2mA	-0.6		-0.75	V
Base-emitter voltage	V _{BE(2)}	V _{CE} =-5V,I _C =-10mA			-0.82	V
Transition frequency	f⊤	V _{CE} =-5V,I _C =-10mA,f=100MHz		200		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=1MHz		3.5		pF
Noise figure	NF	V _{CE} =-5V,I _c =-0.2mA, f=1kHZ,Rs=2K ,BW=200Hz		2.5		dB

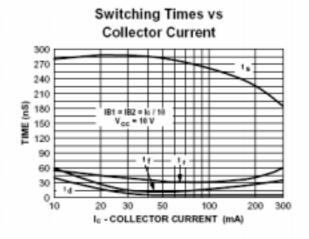
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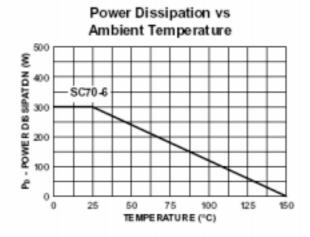






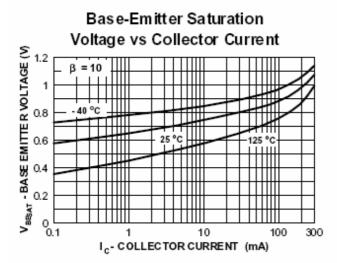


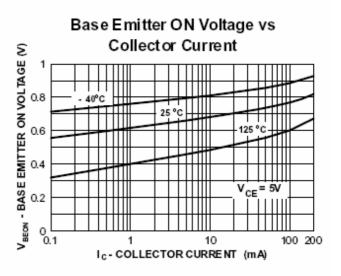




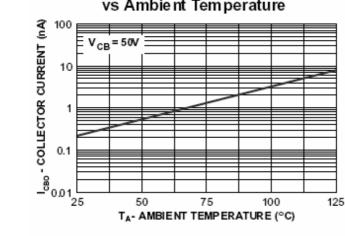
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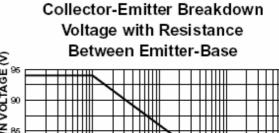


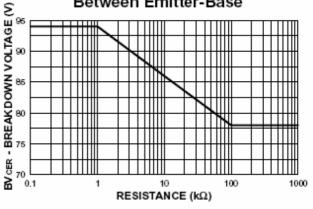




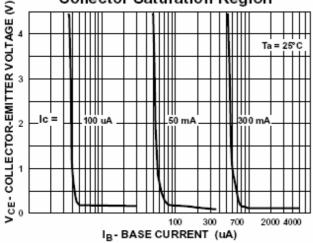
Collector-Cutoff Current vs Ambient Temperature



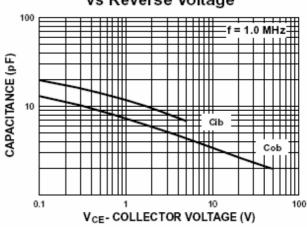




Collector Saturation Region



Input and Output Capacitance vs Reverse Voltage





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Ordering Information:

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

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