



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

BC847BS

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

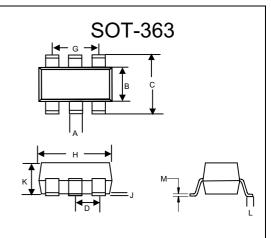
Case: SOT-363, Molded Plastic

Polarity: See Diagram

Maximum Ratings @ 25% Unless Otherwise Specified

Symbol	Parameter	Value	Units		
OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage 45 V				
V _{(BR)CBO}	Collector-Base Breakdown Voltage	50	Vdc		
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	6.0	Vdc		
I _C	Collector Current	100	mAdc		
I _{CM}	Peak Collector Current	200	mAdc		
P _d	Power Dissipation @ T _A =25℃	300	mW		
T _J , T _{STG}	Operating & Storage Temperature	-55~+150	$^{\circ}$ C		

Dual NPN Small Signal Transistor 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	0.65No	ominal		
Ð	.047	.055	1.20	1.40		
I	.071	.087	1.80	2.20		
J		.004		0.10		
K	.035	.043	0.90	1.10		
٦	.010	.018	0.26	0.46		
М	.003	.006	0.08	0.15		



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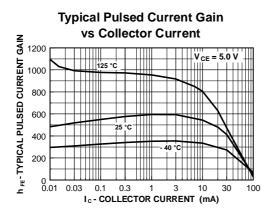
Electrical Characteristics @ 25° C Unless Otherwise Specified

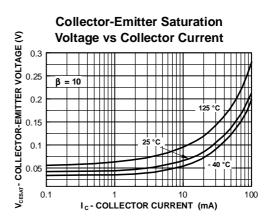
			-			
Symbol	Parameter	Min	Тур	Max	Units	Test Condition
OFF CHARA	CTERISTICS					
h _{FE}	DC Current Gain	200		450		V _{CE} =5.0V, I _C =2.0mA
V _{CE(SAT)}	Collector-Emitter Saturation Voltage			250 650	mV	I _C =10mA, I _B =0.5mA I _C =100mA, I _B =5.0mA
$V_{BE(ON)}$	Base-Emitter Voltage	580	665	700	mV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

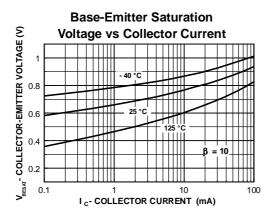
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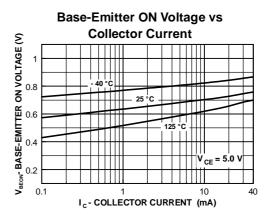


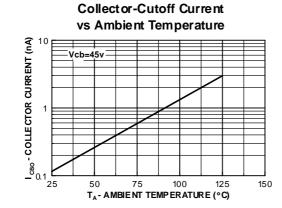
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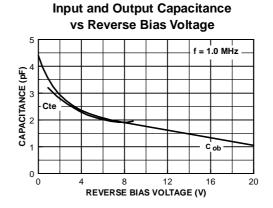










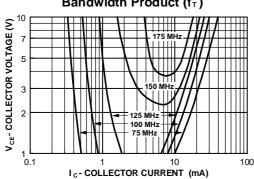


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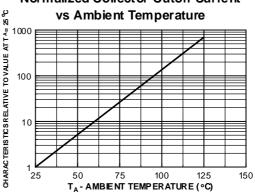


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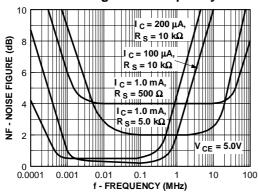
Contours of Constant Gain Bandwidth Product (f₁)



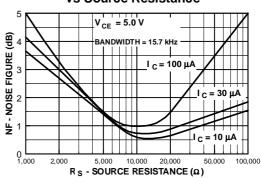
Normalized Collector-Cutoff Current



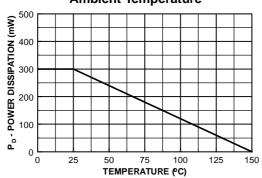
Noise Figure vs Frequency



Wideband Noise Frequency vs Source Resistance



Power Dissipation vs Ambient Temperature





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Ordering Information:

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

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