



Micro Commercial Components



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BC847BS

Dual NPN Small Signal Transistor 300mW

Features

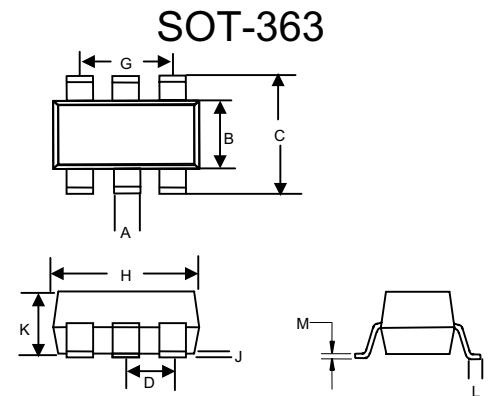
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideally Suited for Automatic Insertion
- Ultra-Small Surface Mount Package
- For Switching and AF Amplifier Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: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

Mechanical Data

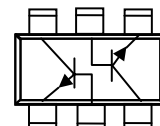
- Case: SOT-363, Molded Plastic
- Polarity: See Diagram

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Parameter	Value	Units
OFF CHARACTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	45	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	50	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	6.0	Vdc
I_C	Collector Current	100	mA dc
I_{CM}	Peak Collector Current	200	mA dc
P_d	Power Dissipation @ $T_A=25^\circ\text{C}$	300	mW
T_J, T_{STG}	Operating & Storage Temperature	-55~+150	°C



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.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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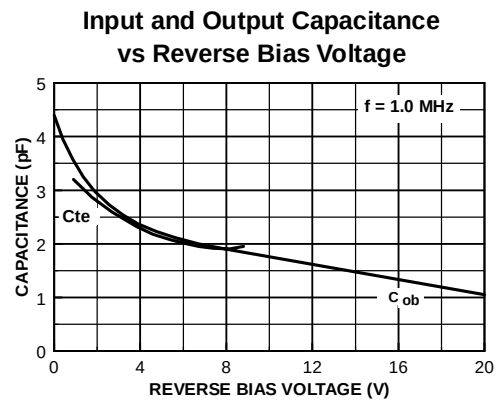
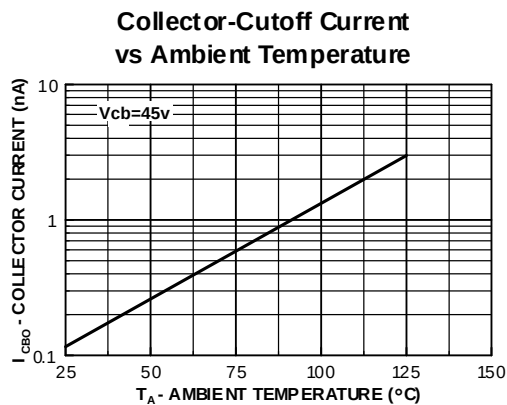
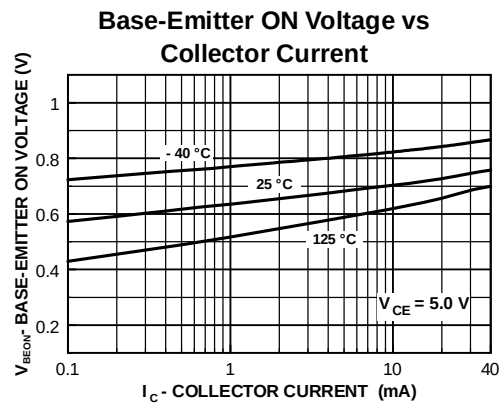
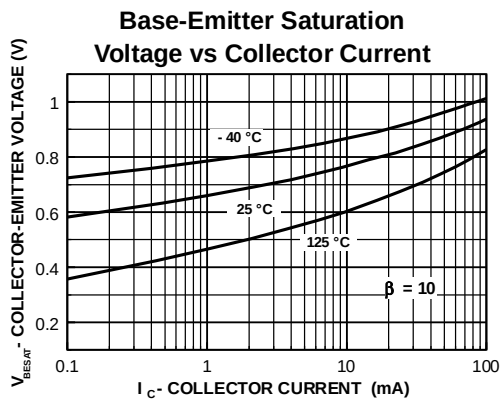
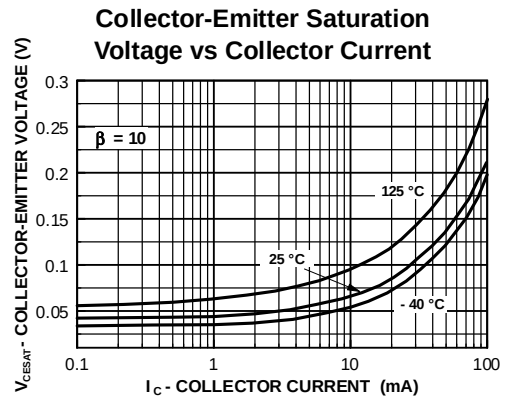
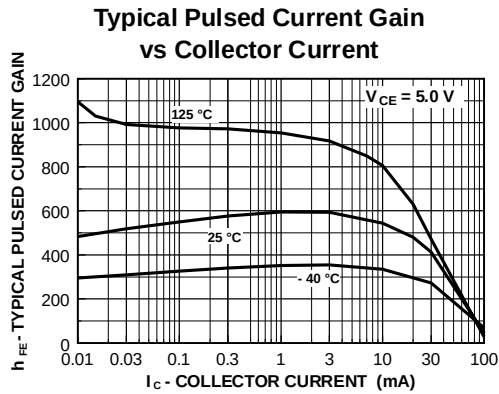
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units	Test Condition
OFF CHARACTERISTICS						
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	$V_{CE}=5.0V$, $I_C=10mA$, $f=100MHz$
C_{OB}	Collector-output Capacitance	---	2	---	pF	$V_{CB}=10V$, $f=1.0MHz$

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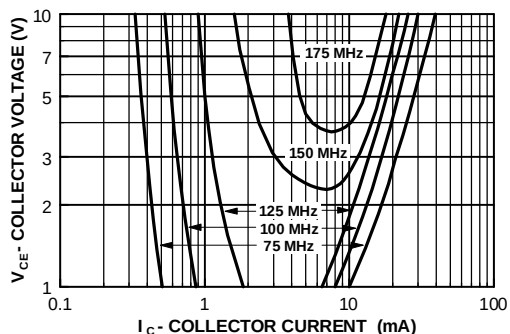
M.C.C.

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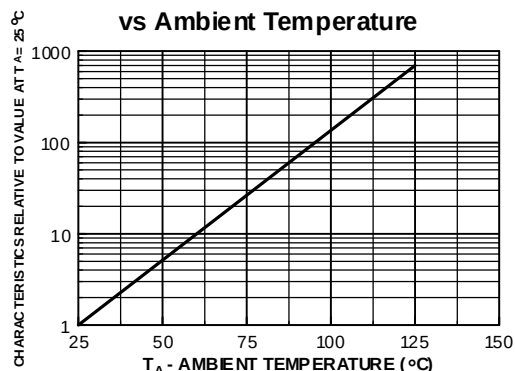


www.mccsemi.com

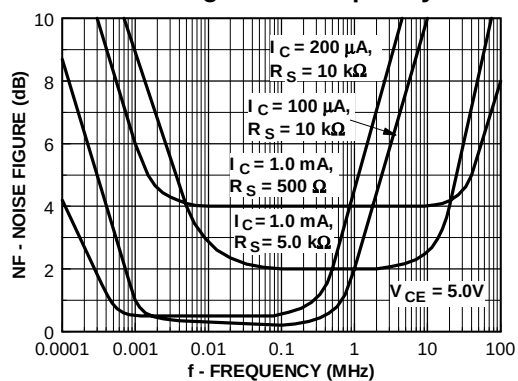
**Contours of Constant Gain
Bandwidth Product (f_T)**



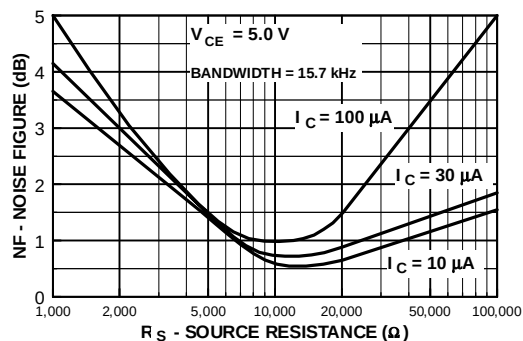
**Normalized Collector-Cutoff Current
vs Ambient Temperature**



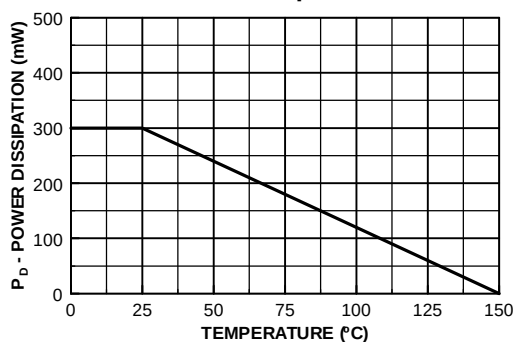
Noise Figure vs Frequency



**Wideband Noise Frequency
vs Source Resistance**



**Power Dissipation vs
Ambient Temperature**



Ordering Information :

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

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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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