

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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BC846S BC846BS

Dual NPN Small

Features

- 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
- Ideally Suited for Automatic Insertion
- Ultra-Small Surface Mount Package
- For Switching and AF Amplifier Applications
- Marking: 4Ft



Signal Transistor 200mW

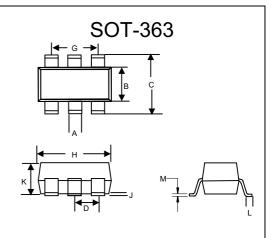
Mechanical Data

Case: SOT-363, Molded Plastic

Polarity: See Diagram

Maximum Ratings @ 25% Unless Otherwise Specified

Symbol	Parameter	Value	Units			
OFF CHARA	OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage 65					
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	80	Vdc			
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage	6.0	Vdc			
I _C	Collector Current 100		mAdc			
P _d	Power Dissipation @ T _A =25°C 200		mw			
T _J , T _{STG}	Operating & Storage Temperature	-55~+150	$^{\circ}$			



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	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
Ι	.071	.087	1.80	2.20	
7		.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° C Unless Otherwise Specified

Symbol	Dorometer	1	Min	Tym	Max	Units	Test Condition
•	Parameter		IVIII	Тур	IVIAX	Units	lest Condition
OFF CHARA	CTERISTICS						
	h DC Current Gain	BC846S	110				
h _{FE}		BC846BS	200		450		V _{CE} =5.0V, I _C =2mA
V _{CE(SAT)}	Collector-Emitter Saturation Voltage				100 300	mV	I_{C} =10mA, I_{B} =0.5mA I_{C} =100mA, I_{B} =5.0mA
$V_{BE(ON)}$	Base-Emitter Voltage			700		mV	.0
I _{CBO}	Collector-Cutoff Cu	ırrent			15	nA	V _{CB} =30V, I _E =0
f _T	Gain Bandwidth Product			100		MHz	V_{CE} =5.0V, I_{C} =10mA, f=100MHz
Сов	Collector-output Capaci	tance		1.5		pF	V _{CB} =10V, f=1.0MHz

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$\cdot M \cdot C \cdot C \cdot$

Typical Characteristics

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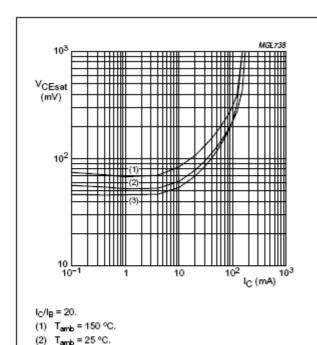
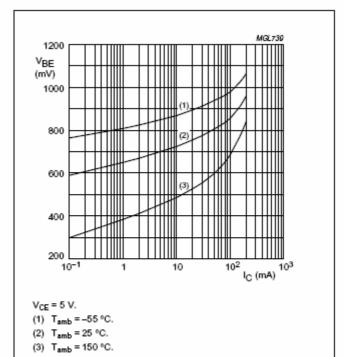
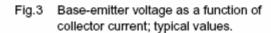
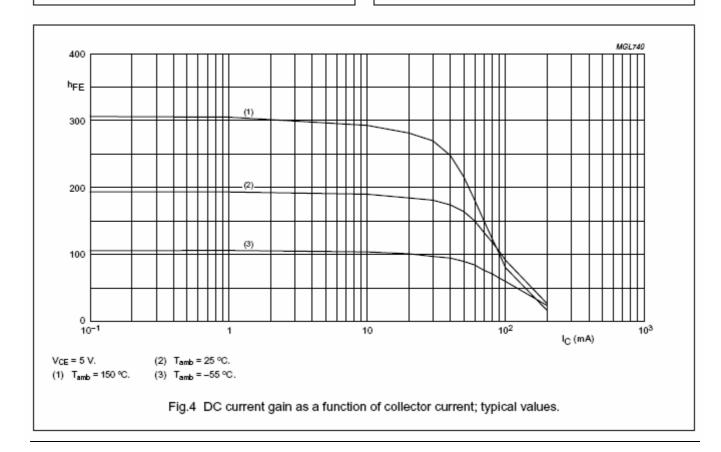


Fig.2 Collector-emitter saturation voltage as a function of collector current; typical values.

(3) T_{amb} = −55 °C.









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Ordering Information:

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

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