



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

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
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

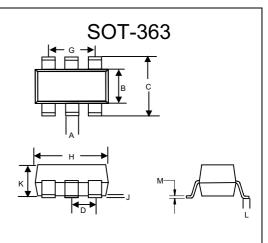
- Case: SOT-363, Molded Plastic
- Polarity: See Diagram

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

Symbol	Parameter	Value	Units				
OFF CHARA	OFF CHARACTERISTICS						
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	tor-Emitter Breakdown Voltage 65					
V _{(BR)CBO}	Collector-Base Breakdown Voltage	80	Vdc				
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage	6.0	Vdc				
Ι _c	Collector Current	100	mAdc				
P _d	Power Dissipation @ T _A =25°C	200	mw				
T _J , T _{STG}	T _J , T _{STG} Operating & Storage Temperature -55~+15						

BC846S BC846BS

Dual NPN Small Signal Transistor 200mW



	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.006	.014	0.15	0.35		
В	.045	.053	1.15	1.35		
С	.079	.096	2.00	2.45		
D	.026		0.65Nominal			
G	.047	.055	1.20	1.40		
Н	.071	.087	1.80	2.20		
ſ		.004		0.10		
К	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
Μ	.003	.006	0.08	0.15		

www.mccsemi.com



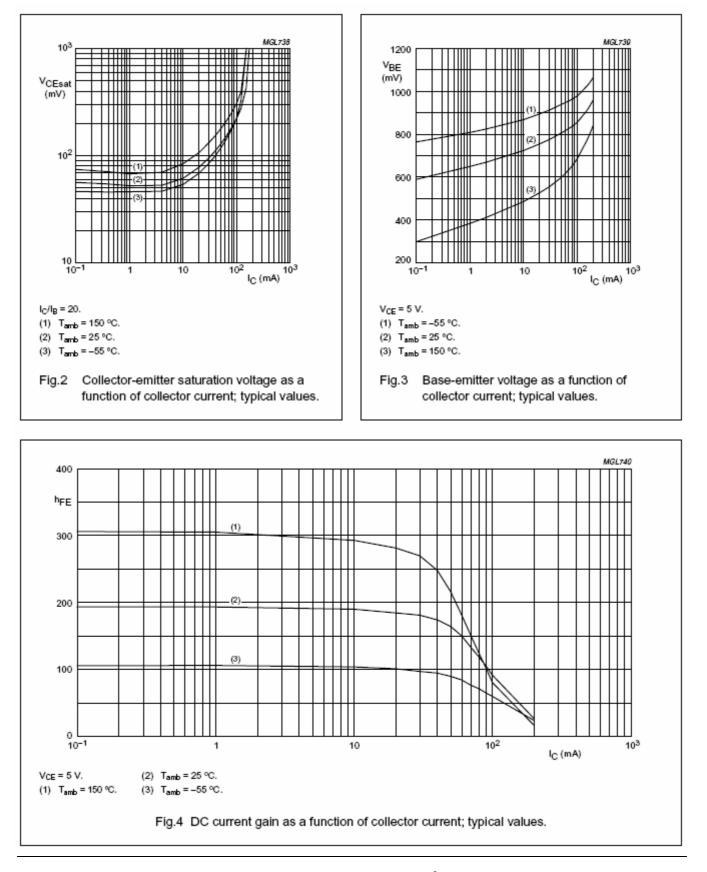
Electrical Characteristics @ 25 $^\circ\!\mathrm{C}$ Unless Otherwise Specified

Symbol	Parameter		Min	Тур	Max	Units	Test Condition
OFF CHARA	CTERISTICS						
h _{FE}	DC Current Gain	BC846S BC846BS	110 200		 450		V _{CE} =5.0V, I _C =2mA
$V_{CE(SAT)}$	Collector-Emitter Saturatio	n 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	
I _{CBO}	Collector-Cutoff Current				15	nA	V _{CB} =30V, I _E =0
f⊤	Gain Bandwidth Proc	duct		100		MHz	V _{CE} =5.0V, I _C =10mA, f=100MHz
COB	Collector-output Capacit	tance		1.5		pF	V _{CB} =10V, f=1.0MHz

– www.mccsemi.com –



Typical Characteristics



www.mccsemi.com



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com