

M·C·C·

Micro Commercial Components



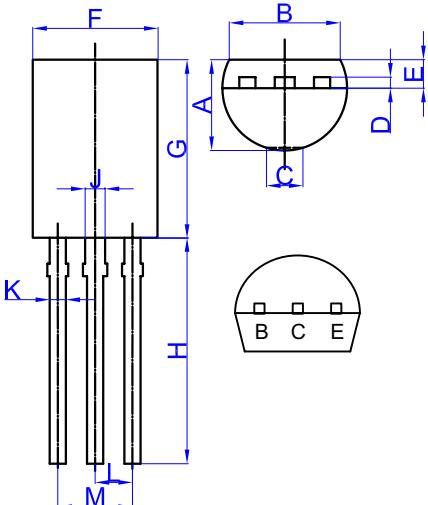
Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

2SB647L

Features

- Low Frequency Power Amplifier
- Complementary Pair with 2SD667
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

PNP
Plastic-Encapsulate
Transistor

TO-92L

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{CBO}	Collector-Base Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-1	A
P_C	Collector Power Dissipation	750	mW
R_{thJA}	Thermal Resistance Junction to Ambient	167	$^{\circ}\text{C}/\text{W}$
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
--------	-----------	-----	-----	-----	-------

OFF CHARACTERISTICS

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-10\text{uA}\text{dc}, I_E=0$)	-120	---	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1\text{mA}\text{dc}, I_E=0$)	-80	---	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=-10\text{uA}\text{dc}, I_C=0$)	-5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-100\text{Vdc}, I_E=0$)	---	---	-10	uAdc

ON CHARACTERISTICS

h_{FE}	DC Current gain ⁽¹⁾ ($I_C=150\text{mA}\text{dc}, V_{CE}=-5\text{Vdc}$) ($I_C=500\text{mA}\text{dc}, V_{CE}=-5\text{Vdc}$)	60	---	320	---
		30			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mA}\text{dc}, I_E=50\text{mA}\text{dc}$)	---	---	-1.0	Vdc
V_{BE}	Base-Emitter Voltage ($I_C=150\text{mA}\text{dc}, V_{CE}=-5\text{Vdc}$)	---	---	-1.5	Vdc
f_T	Transistor Frequency ($I_C=150\text{mA}\text{dc}, V_{CE}=-5\text{Vdc}$)	---	140	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=-10\text{Vdc}, I_E=0, f=1.0\text{MHz}$)	---	20	---	pF

(1) h_{FE} Classification B: 60~120, C: 100~200, D: 160~320

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.146	.161	3.700	4.10	
B	.157	—	4.000	—	
C	---	0.063	---	1.600	
D	.014	.018	0.350	0.450	
E	.050	.062	1.280	1.580	
F	.185	.201	4.700	5.100	
G	.307	.323	7.800	8.200	
H	.543	.559	13.80	14.20	
J	.024	.031	.600	.800	
K	.014	.022	0.350	.550	
L		.050		1.270	
M	.096	.104	2.440	2.640	

WWW.mccsemi.com

Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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.