

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{CBO}	Collector-Base Voltage	V	
V_{EBO}	Emitter-Base Voltage	-5.0	V
Ic	Collector Current	-1	Α
Pc	Collector Power Dissipation	750	mW
R_{thJA}	Thermal Resistance Junction to Ambient	167	°C/W
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

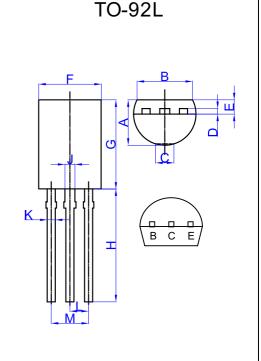
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =-10uAdc,I _E =0)	-120			Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =-1mAdc,I _B =0)	-80			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-10uAdc,I _C =0)	-5.0			Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =-100Vdc, I _E =0)			-10	uAdc

ON CHARACTERISTICS

h _{FE}	DC Current gain ⁽¹⁾	60		320	
	$(I_C=-150 \text{mAdc}, V_{CE}=-5 \text{Vdc})$				
	$(I_C=-500 \text{mAdc}, V_{CE}=-5 \text{Vdc})$	30			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _C =-500mAdc, I _B =-50mAdc)			-1.0	Vdc
V_{BE}	Base- Emitter Voltage (I _C =-150mAdc, V _{CE} =-5Vdc)			-1.5	Vdc
f _T	Transistor Frequency (I _C =-150mAdc, V _{CE} =-5Vdc)		140		MHz
C _{ob}	Collector Output Capacitance (V _{CB} =-10Vdc, I _E =0, f=1.0MHz)		20		pF

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



DIMENSIONS					
	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.146	.161	3.700	4.10	
В	.157	_	4.000		
С		0.063		1.600	
D	.014	.018	0.350	0.450	
Е	.050	.062	1.280	1.580	
F	.185	.201	4.700	5.100	
G	.307	.323	7.800	8.200	
Н	.543	.559	13.80	14.20	
J	.024	.031	.600	.800	
K	.014	.022	0.350	.550	
L	.050		1.270		
М	.096	.104	2.440	2.640	



Ordering Information:

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

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