

**Micro Commercial Components** 



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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)

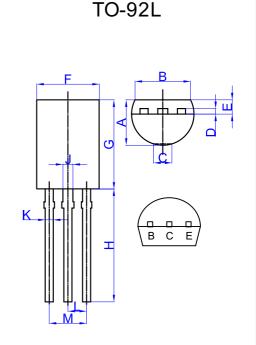
# **PNP Plastic-Encapsulate Transistor**

# **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	-80	V
$V_{CBO}$	Collector-Base Voltage	-120	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
Tυ	Operating Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T <sub>STG</sub>	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 <sub>C</sub> =-10µAdc,I <sub>E</sub> =0)	-120			Vdc	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mAdc,I <sub>B</sub> =0)	-80			Vdc	
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =-10µAdc,I <sub>C</sub> =0)	-5.0			Vdc	
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-100Vdc, I <sub>E</sub> =0)			-10	μAdc	



# MIN 0.063 .050 .062 1.580 5.100 7.800 .559

DIMENSIONS

#### **ON CHARACTERISTICS**

h <sub>FE</sub>	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 <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-500mAdc, I <sub>B</sub> =-50mAdc)			-1.0	Vdc
$V_{BE}$	Base- Emitter Voltage (I <sub>C</sub> =-150mAdc, V <sub>CE</sub> =-5Vdc)			-1.5	Vdc
f⊤	Transistor Frequency (I <sub>C</sub> =-150mAdc, V <sub>CE</sub> =-5Vdc)		140		MHz
C <sub>ob</sub>	Collector Output Capacitance (V <sub>CB</sub> =-10Vdc, I <sub>E</sub> =0, f=1.0MHz)		20		pF

(1) h<sub>FE</sub>Classification B: 60~120, C: 100~200,D:160~320



#### **Micro Commercial Components**

### **Ordering Information:**

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

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