

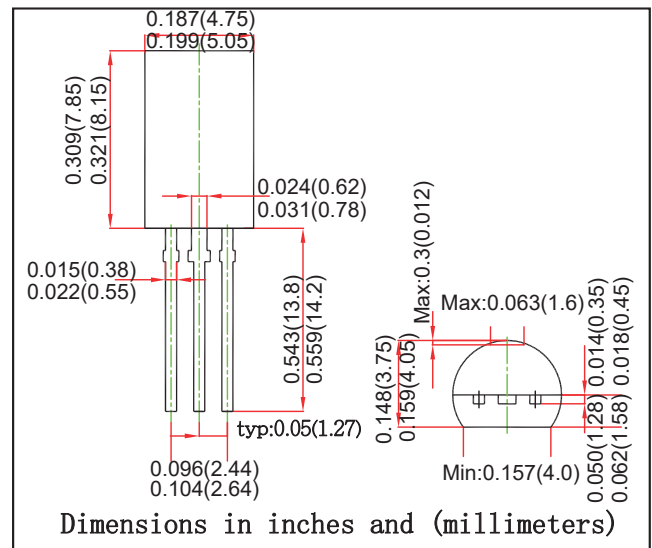
TO-92L Plastic-Encapsulate Transistors

FEATURES

- Low Frequency Power Amplifier
- Complementary Pair with 2SB647/A
- TRANSISTOR (NPN)

MECHANICAL DATA

- Case style:TO-92L molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector- Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	1	A
Collector Power Dissipation	P_C	900	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	139	°C/W
Junction and Storage Temperature	T_{stg}	-55 ~ +150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	120			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=100V, I_E=0$			10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$			10	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=150mA$	60		320	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=500mA$	30			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$			1	V
Base-emitter voltage	V_{BE}	$V_{CE}=5V, I_C=150mA$			1.5	V
Transition frequency	f_T	$V_{CE}=5V, I_C=150mA$		140		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		12		pF

RATINGS AND CHARACTERISTIC CURVES

