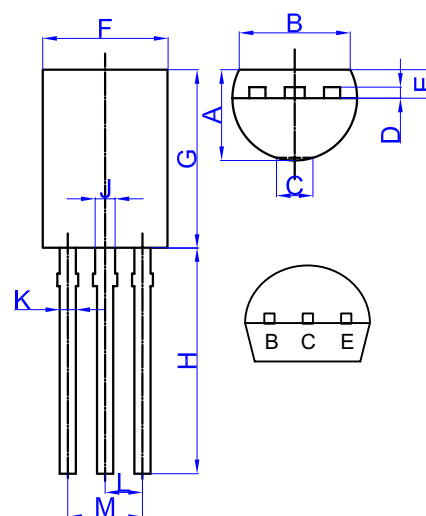




2SD667L

NPN Plastic-Encapsulate Transistor

TO-92L



DIMENSIONS					
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	

Features

- Low Frequency Power Amplifier
- Complementary Pair with 2SB647/A
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates)
- Compliant. See ordering information)

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	900	mW
R_{thJA}	Thermal Resistance Junction to Ambient	139	$^{\circ}C/W$
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

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

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=10\mu A$, $I_E=0$)	120	---	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1mA$, $I_B=0$)	80	---	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=10V$, $I_E=0$)	---	---	10	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4.0V$, $I_C=0$)	---	---	10	μA

ON CHARACTERISTICS

h_{FE}	DC Current gain ⁽¹⁾ ($I_C=150mA$, $V_{CE}=5V$) ($I_C=500mA$, $V_{CE}=5V$)	60	---	320	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500mA$, $I_B=50mA$)	---	---	1.0	Vdc
V_{BE}	Base- Emitter Voltage ($I_C=150mA$, $V_{CE}=5V$)	---	---	1.5	Vdc
f_T	Transistor Frequency ($I_C=150mA$, $V_{CE}=5V$)	---	140	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10V$, $I_E=0$, $f=1.0MHz$)	---	12	---	pF

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

Ordering Information :

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

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