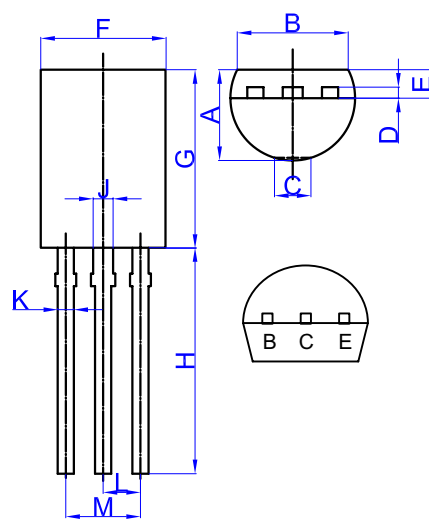




2SD667L

NPN Plastic-Encapsulate Transistor

TO-92L



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	°C/W
T _J	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°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 =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
I _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)	---	---	10	uAdc

ON CHARACTERISTICS

h _{FE}	DC Current gain ⁽¹⁾ (I _C =150mAdc, V _{CE} =5Vdc) (I _C =500mAdc, V _{CE} =5Vdc)	60	---	320	---
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)	---	12	---	pF

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

DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	



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Ordering Information :

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

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