

东莞市华远电子有限公司

DONG GUAN SHI HUA YUAN ELECTRON CO..LTD.

TEL: 86-769-5335378 86-769-5305266 FEX: 86-769-5316189

TO-92 Plastic-Encapsulate Transistors

2SA821 TRANSISTOR (PNP)

FEATURES

Power dissipation

P_{CM}: 0.25 W (Tamb=25)

Collector current

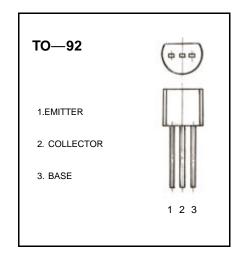
I_{CM}: -0.03 A

Collector-base voltage

V_{(BR)CBO}: -210 V

Operating and storage junction temperature range

 T_J , T_{stg} : -55 to +150

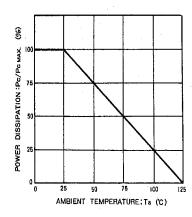


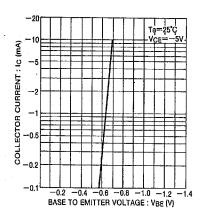
ELECTRICAL CHARACTERISTICS (Tamb=25 unless otherwise specified)

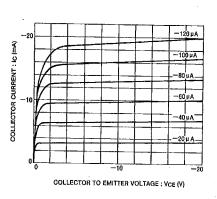
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR) _{CBO}	Ic= -50 μ A , I _E =0	-210			V
Collector-emitter breakdown voltage	V(BR) _{CEO}	I_{C} = -0.1 mA , I_{B} =0	-210			V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E = -50 μ A , I _C =0	-5			V
Collector cut-off current	Ісво	V _{CB} =-150V, I _E =0			-1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = -4.5 V , I _C =0			-1	μА
DC current gain	h _{FE}	V_{CE} =-3 V, I_{C} = -5mA	56		270	
Collector-emitter saturation voltage	V _{CEsat}	I _C = -2mA, I _B = -0.2mA			-0.6	V
Transition frequency	f _T	V _{CE} =-5V, I _C = -2mA	30			MHz
Output capacitance	C _{ob}	V _{CE} =-10V,I _E =0,f=1MHz			12	pF

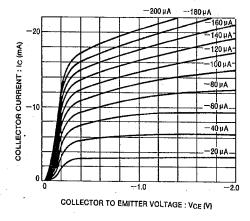
CLASSIFICATION OF hFE

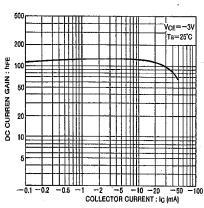
Rank	N	Р	Q
Range	56-120	82-180	120-270

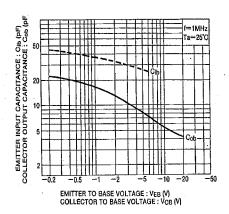


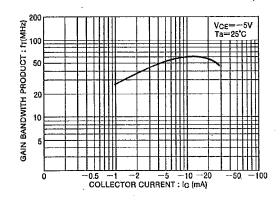


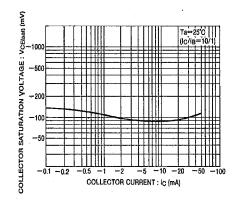












TO-92 PACKAGE OUTLINE DIMENSIONS





Symbol	Dimensions I	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	3.300	3.700	0.130	0.146	
A1	1.100	1.400	0.043	0.055	
b	0.380	0.550	0.015	0.022	
С	0.360	0.510	0.014	0.020	
D	4.400	4.700	0.173	0.185	
D1	3.430		0.135		
E	4.300	4.700	0.169	0.185	
е	1.270TYP		0.050TYP		
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ö		1.600		0.063	
$\overline{}$	0.000	0.380	0.000	0.015	