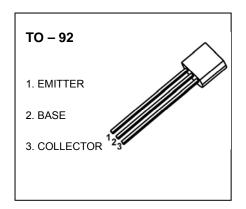


TO-92 Plastic-Encapsulate Transistors

FEATURES

- Switching and Amplification in High Voltage
- Applications such as Telephony
- Low Current
- High Voltage
- PNP Transistors



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-0.6	Α
Pc	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	°C/W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -0.1mA,I _E =0	-160			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-150			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =-0.01mA,I _C =0	-5			>
Collector cut-off current	I _{CBO}	V _{CB} =-120V,I _E =0			-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-3V,I _C =0			-50	nA
DC current gain	h _{FE(1)}	V _{CE} =-5V, I _C =-1mA	80			
	h _{FE(2)}	V _{CE} =-5V, I _C =-10mA	60		300	
	h _{FE(3)}	V _{CE} =-5V, I _C =-50mA	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50mA,I _B =-5mA			-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-50mA,I _B =-5mA			-1	V
Transition frequency	f _T	Vc=-5V,lc=-10mA, f =30MHz	100		300	MHz

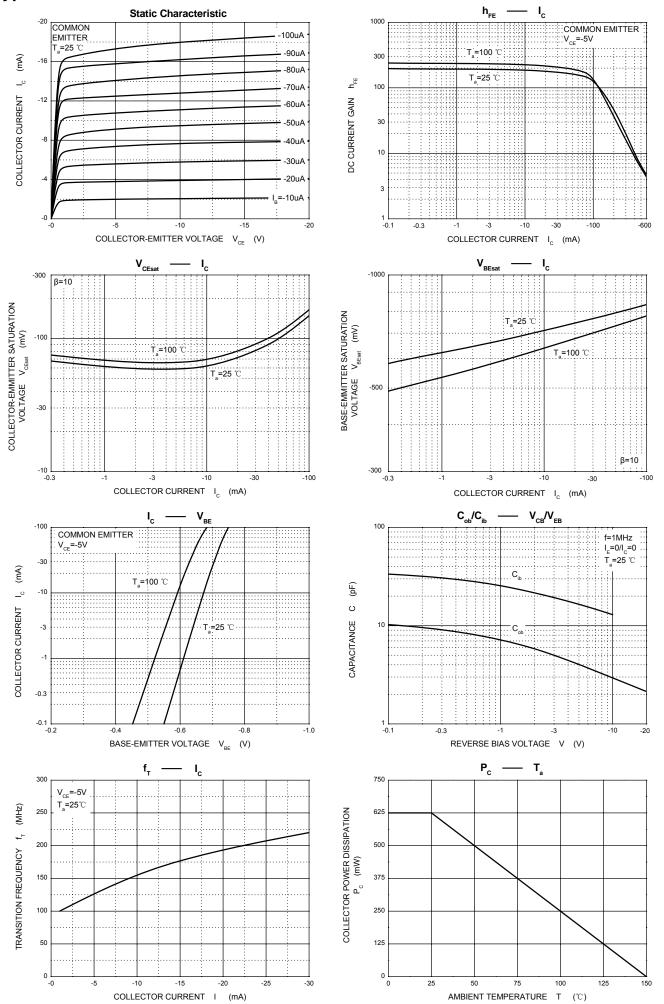
^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.

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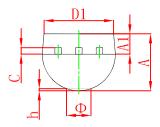


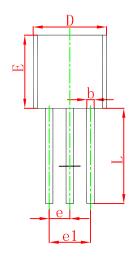
Typical Characteristics





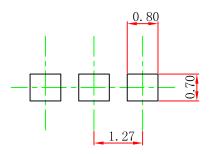
TO-92 Package Outline Dimensions





Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	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	4.300	4.700	0.169	0.185	
D1	3.430		0.135		
Е	4.300	4.700	0.169	0.185	
е	1.270 TYP		0.050 TYP		
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	

TO-92 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

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