

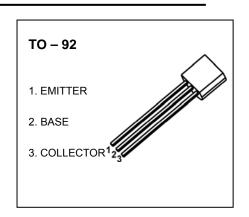
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92 Plastic-Encapsulate Transistors

2N4124 TRANSISTOR (NPN)

FEATURES

- High DC Current Gain
- High Transition Frequency



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	0.2	Α
Pc	Collector Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	357	°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 = 0.01mA,I _E =0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I _C =1mA,I _B =0	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =0.01mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,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} =1V, I _C =2mA	120		360	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C =50mA	60			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50mA,I _B =5mA			0.3	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =50mA,I _B =5mA			0.95	V
Collector output capacitance	C _{ob}	V _{CB} =5V,I _E =0, f=1MHz			4	pF
Transition frequency	f _T	VcE=20V,Ic=10mA, f=100MHz	300			MHz