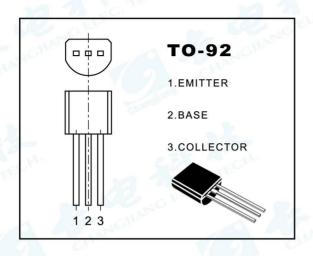
TO-92 Plastic-Encapsulate Transistors

S9014 TRANSISTOR(NPN)



FEATURES

Power dissipation

Рсм: 0.4W (Tamb=25°С)

Collector current

Iсм: 0.1 A

Collector-base voltage

V_{(ВR)СВО:} 50 V

Operating and storage junction temperature range

T_J,T_{stg:} -55℃ to + 150℃

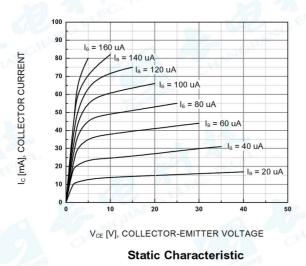
ELECTRICAL CHARACTERISTICS

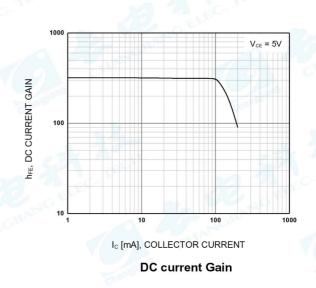
(Tamb=25℃ unless otherwise specified)

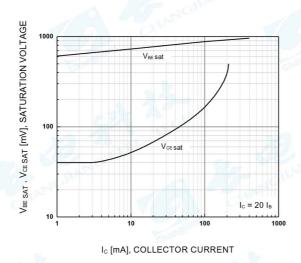
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V(BR)CBO	Ic= 100 μ A, Iε=0	50	CHI	V
Collector-emitter breakdown voltage	V(BR)CEO	Ic= 0.1 mA, I _B =0	45	9	V
Emitter-base breakdown voltage	V(BR)EBO	I _E = 100 μ A, I _C =0	5		V
Collector cut-off current	Ісво	V _{CB} = 50 V, I _E =0	23	0.1	μА
Collector cut-off current	ICEO	V _{CE} = 35 V, I _B =0	2 3	0.1	μ А
Emitter cut-off current	І ЕВО	V _{EB} = 3 V, I _C =0	JIANO	0.1	μА
DC current gain	hre	VcE= 5 V, Ic= 1 mA	60	1000	9
Collector-emitter saturation voltage	VCEsat	Ic= 100 mA, I _B = 5 mA		0.3	V
Base-emitter saturation voltage	VBEsat	Ic= 100 mA, I _B = 5 mA	,	1	V
Transition frequency	fī	V _{CE} = 5 V, I _C = 10 mA f =30MHz	150	20	MHz

CLASSIFICATION OF hee

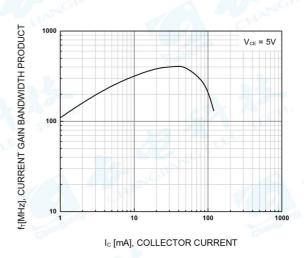
Rank	_ А	В	С	D
Range	60-150	100-300	200-600	400-1000





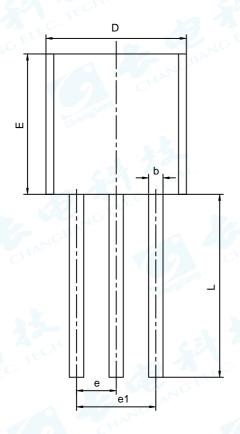


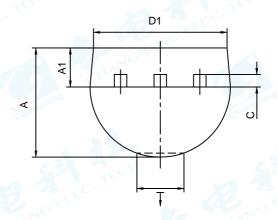
Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage



Current Gain Bandwidth Product

TO-92 PACKAGE OUTLINE IENSIONS





Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
A	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	GHA	1.600	GIA	0.063	
T	0.000	0.380	0.000	0.015	