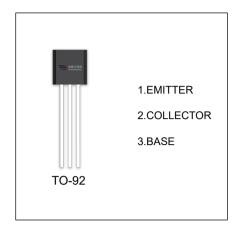


S9014 TRANSISTOR (NPN)

FEATURES

- High Total Power Dissipation.(P_C=0.45W)
- High hee and Good Linearity Complementary to S9015



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
S9014	TO-92	Bulk	1000pcs/Bag
S9014-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	45	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	0.1	А
P _D	Collector Power Dissipation	450	mW
R _{0 JA}	Thermal Resistance from Junction to Ambient	277.7	°C /W
T_J , T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$



T_a =25 $^{\circ}$ C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	Ісво	V _{CB} =50V, I _E =0			0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =35V, I _B =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =5V, I _C = 1mA	60		1000	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =100mA, I _B = 5mA			0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =100mA, I _B = 5mA			1	V
Transition frequency	f _T	V _{CE} =5V, I _C = 10mA f=30MHz	150			MHz

CLASSIFICATION OF h_{FE(1)}

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



