

SHENZHEN CITY KOO CHIN ELECTRONICS LIMITED

\$9014 TRANSISTOR (NPN)

FEATURES

Complementary to S9015

MARKING: J6

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)



Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	50	V	
V _{CEO}	Collector-Emitter Voltage	45	V	
V _{EBO}	Emitter-Base Voltage	5		
Ic	Collector Current -Continuous	0.1	Α	
Pc	Collector Power Dissipation	0.2	W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	℃	

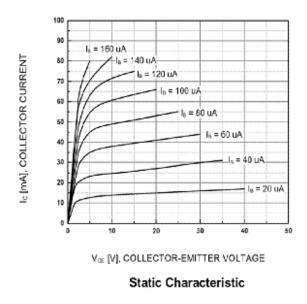
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

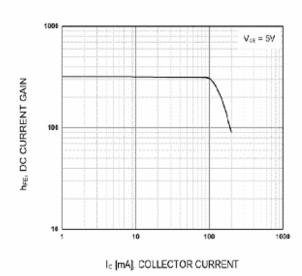
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	50			٧
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 0.1mA, I _B =0	45			٧
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μΑ, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =50 V , I _E =0			0.1	μА
Collector cut-off current	I _{CEO}	V _{CE} =35V , I _B =0			0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 3V , I _C =0			0.1	μА
DC current gain	h _{FE}	V _{CE} =5V, I _C = 1mA	200		1000	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =100 mA, I _B = 5mA			0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =100 mA, I _B = 5mA			1	٧
Transition frequency	f⊤	V _{CE} =5V, I _C = 10mA f=30MHz	150			MHz

CLASSIFICATION OF hFE

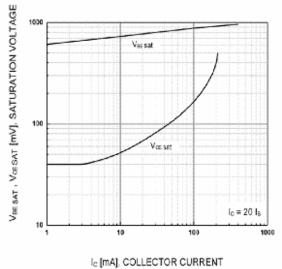
Rank	L	Н
Range	200-450	450-1000

HTTP: WWW.HZ-DZ.NET

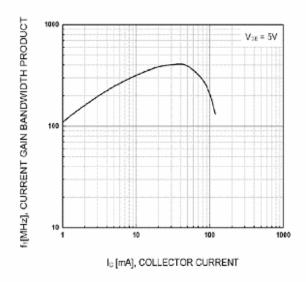




DC current Gain



Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage



Current Gain Bandwidth Product