

RHOS

SOT-23



1. BASE

2. EMITTER

3. COLLECTOR

MARKING: 2A

Features

• As complementary type the NPN transistor S9014 is recommended

Epitaxial planar die construction

Maximum Ratings

(Ratings at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Units
V _{сво}	Collector-Base Voltage	-50	V
VCEO	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current -Continuous	-100	mA
Pc	Total Device Dissipation	200	mW
R _{0JA}	Thermal Resistance Junction to Ambient	625	°C/W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 to +150	°C

Electrical Characteristics

(Ratings at 25° C ambient temperature unless otherwise specified).

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{CBO}	Ι _C =-10μΑ, Ι _E =0	-50		V
Collector-emitter breakdown voltage	V _{CEO}	I _C =-1mA, I _B =0	-45		V
Emitter-base breakdown voltage	V _{EBO}	I _E =-10μΑ, I _C =0	-5	1	V
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I _E =0		-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0		-0.1	μA
DC current gain	h _{FE(2)}	₂₎ V _{CE} =-5V, I _C = -1mA		1000	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B = -10mA		-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-100mA, I _B = -10mA		-1	V
Transition frequency		V_{CE} =-5V, I _C =-10mA,f=30MHz	150		MHz

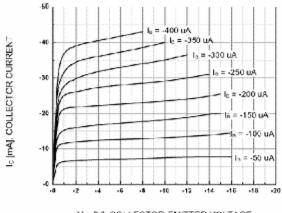
CLASSIFICATION OF h_{FE(1)}

Rank	L	Н
Range	200-450	450-1000



SOT-23 Plastic-Encapsulate Transistors(PNP)





V_{CE} [V], COLLECTOR-EMITTER VOLTAGE



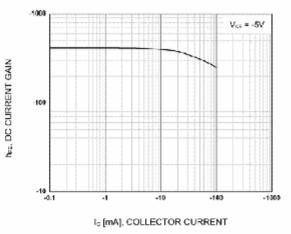


Figure 2. DC current Gain

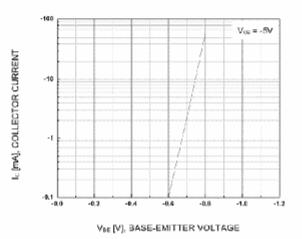
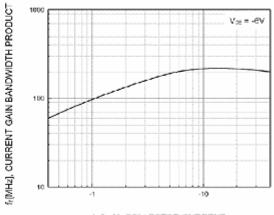


Figure 4. Base-Emitter On Voltage

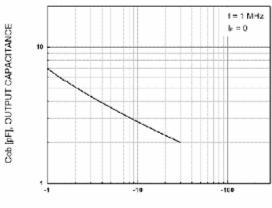


Ic [mA], COLLECTOR CURRENT



Ic [mA], COLLECTOR CURRENT

Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage



Vc8 [V], COLLECTOR-BASE VOLTAGE

Figure 5. Collector Output Capacitance

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