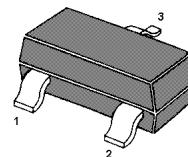


## S9014 TRANSISTOR (NPN)

### FEATURES

Complementary to S9015

#### SOT-23



1. BASE
2. EMITTER
3. COLLECTOR

MARKING: J6

### MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	value	units
$V_{CB0}$	Collector-Base Voltage	50	V
$V_{CEO}$	Collector-Emitter Voltage	45	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	0.1	A
$P_C$	Collector Power Dissipation	0.2	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature	-55-150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CB0}$	$I_C=100\mu\text{A}$ , $I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=0.1\text{mA}$ , $I_B=0$	45			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}$ , $I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=50\text{V}$ , $I_E=0$			0.1	$\mu\text{A}$
Collector cut-off current	$I_{CEO}$	$V_{CE}=35\text{V}$ , $I_B=0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=3\text{V}$ , $I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=5\text{V}$ , $I_C=1\text{mA}$	200		450	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100\text{mA}$ , $I_B=5\text{mA}$			0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=100\text{mA}$ , $I_B=5\text{mA}$			1	V
Transition frequency	$f_T$	$V_{CE}=5\text{V}$ , $I_C=10\text{mA}$ $f=30\text{MHz}$	150			MHz

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邮箱: [idchip@indreamchip.com](mailto:idchip@indreamchip.com)

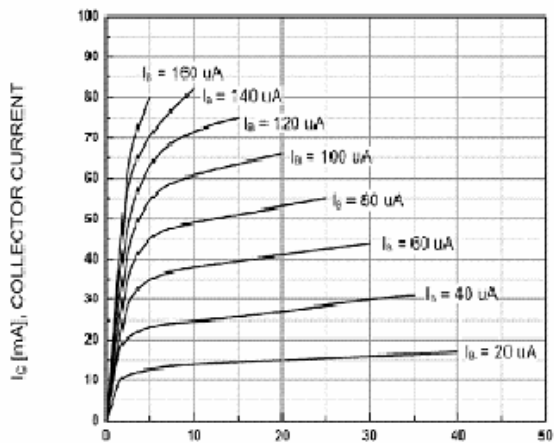
传真: 0755-82568886

网址: [www.idchip.cn](http://www.idchip.cn)

公司地址: 深圳市福田区滨河大道联合广场 A 座 1308

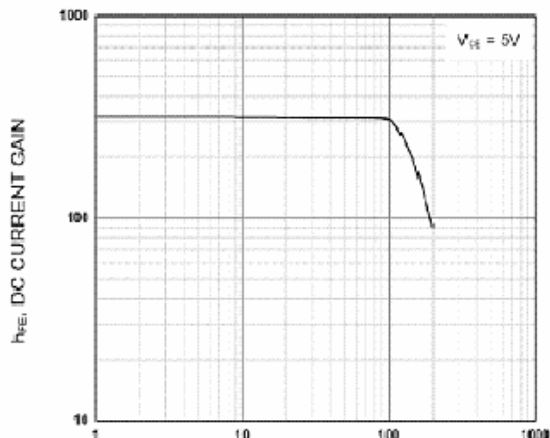
## Typical Characteristics

S9014



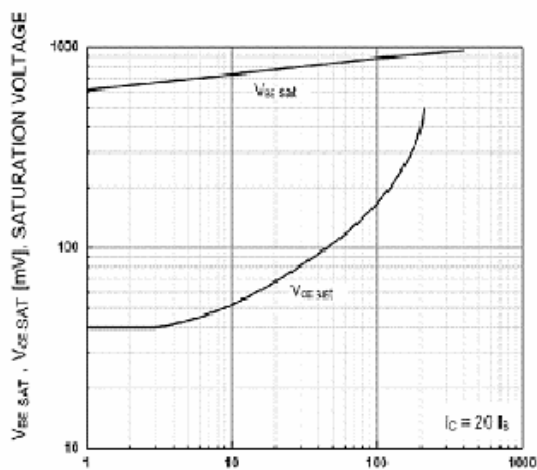
$V_{CE}$  [V], COLLECTOR-EMITTER VOLTAGE

Static Characteristic



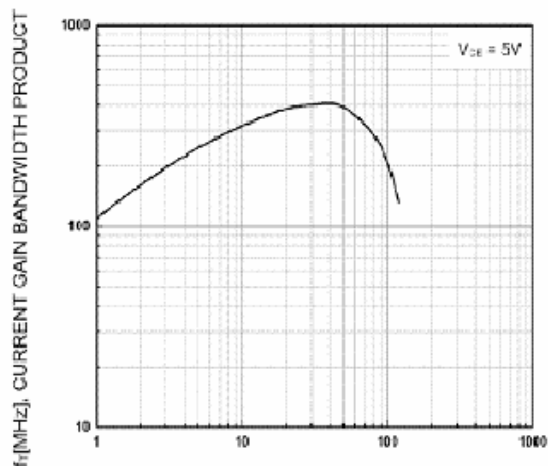
$I_C$  [mA], COLLECTOR CURRENT

DC current Gain



$I_C$  [mA], COLLECTOR CURRENT

Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage



$I_C$  [mA], COLLECTOR CURRENT

Current Gain Bandwidth Product

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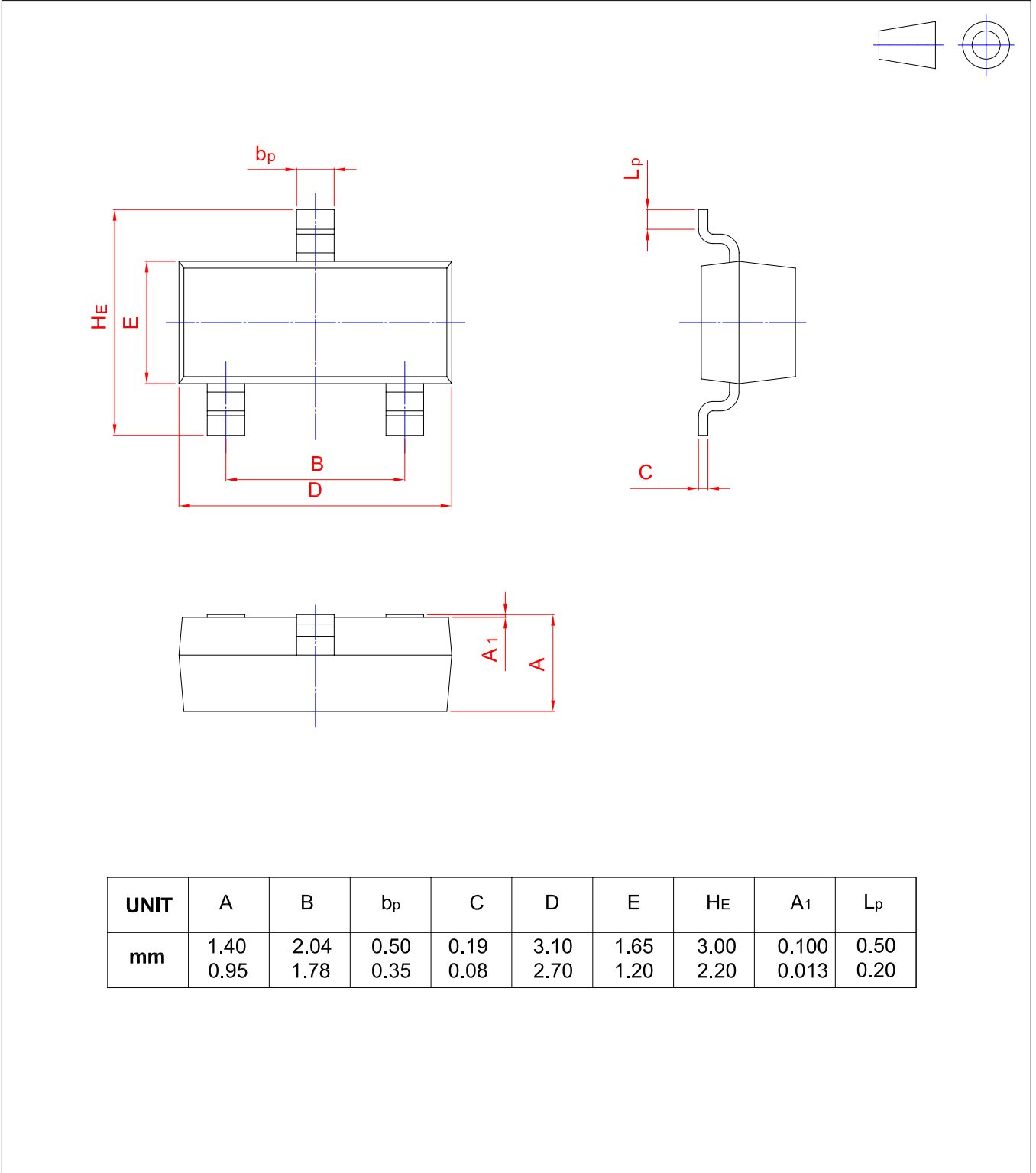
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### PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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