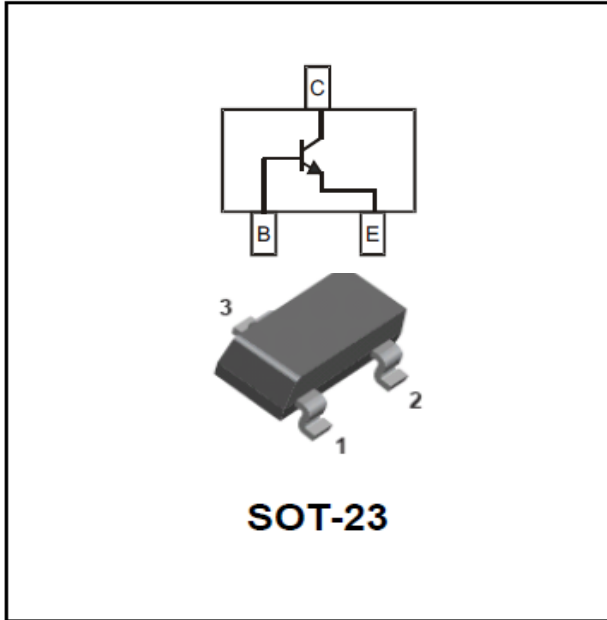




S9014

NPN Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: J6

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V		50
Collector-Emitter Voltage	VCEO	V		45
Emitter-Base Voltage	VEBO	V		5
Collector Current	IC	A		0.1
Total Device Dissipation	PC	W		0.2
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-30 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	$I_C=100\mu A, I_E=0$	50		
Collector-emitter breakdown voltage	$V_{(BR)CEO^*}$	V	$I_C=0.1mA, I_B=0$	45		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	$I_E=100\mu A, I_C=0$	5		
Collector cut-off current	I_{CBO}	μA	$V_{CB}=50V, I_E=0$			0.1
Collector cut-off current	I_{CEO}	μA	$V_{CE}=35V, I_B=0$			0.1
Emitter cut-off current	I_{EBO}	μA	$V_{EB}=3V, I_C=0$			0.1
DC current gain	h_{FE}	V	$V_{CE}=5V, I_C=1mA$	200		1000
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=100mA, I_B=5mA$			0.3
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C=100mA, I_B=5mA$			1