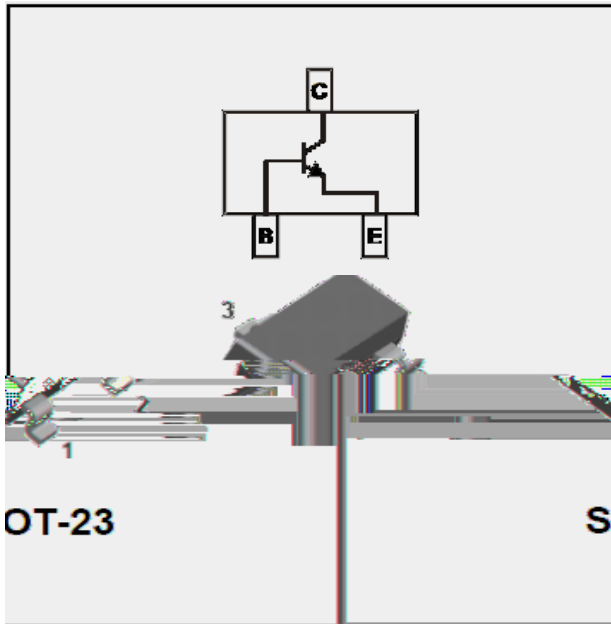


NPN Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking: J6

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CB0}	V		50
Collector-Emitter Voltage	V_{CE0}	V		45
Emitter-Base Voltage	V_{EB0}	V		5
Collector Current	I_C	A		0.1
Collector Power Dissipation	P_C	W		0.2
Operation Junction Temperature	T_j			150
Storage Temperature	T_{stg}			-55 to +150 °C

	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V_{CB0}	V	$I_C=100\mu A, I_E=0$	50		
Collector-emitter breakdown voltage	V_{CE0}^*	V	$I_{CEO} \quad \mu A \quad V_{CE}=35V, I_B=0$			0.1

Emitter-Base cut-off current	I_{EB0}	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



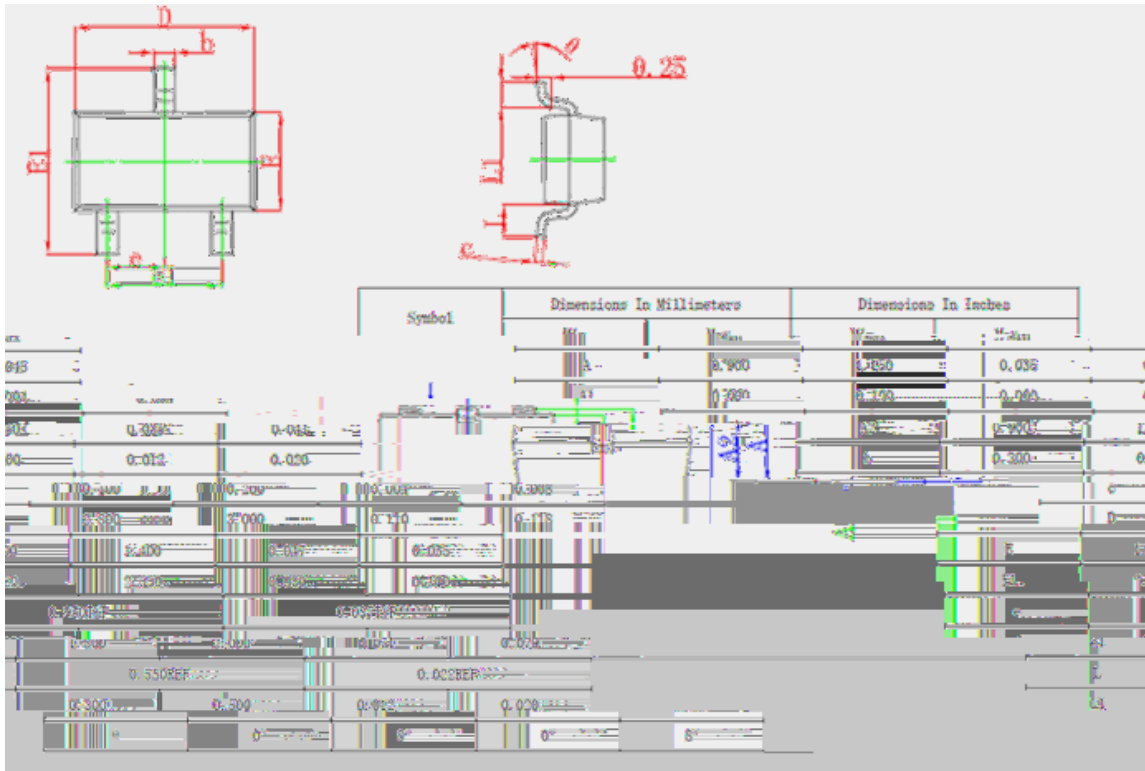
■ CLASSIFICATION OF HFE (1)

RANK	L	H
RANGE	200-450	450-1000

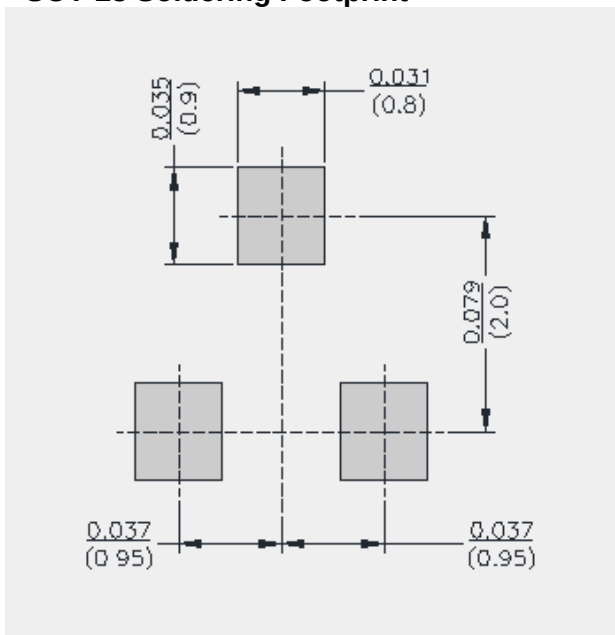
■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S9014	F2	Approximate 0.008	3000	30000	120000	7" reel

■SOT-23 Package Outline Dimensions



■SOT-23 Soldering Footprint





Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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