



NPN Transistor

Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- NPN

Mechanical Data

- **Package:** SOT-23-3L
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:**

■ Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value	Collector Power Dissipation
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	P_c	mW		150	
Operation Junction Temperature	T_j	°C		150	
Storage Temperature	T_{stg}	°C		-55 to +150	

■ Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value	Collector Power Dissipation
	I_{EBO}	μA	$I_E = 100 \mu A, I_C = 0$	6	
Collector-base cut-off current	I_{CBO}	μA	$V_{CB} = 50 V, I_E = 0$		0.1
Emitter-base cut-off current	I_{EBO}	μA	$V_{EB} = 6 V, I_C = 0$		0.1
DC current gain	h_{FE1}		$V_{CE} = 6 V, I_C = 1 mA$	150	800
	h_{FE2}		$V_{CE} = 6 V, I_C = 0.1 mA$	50	
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C = 100 mA, I_B = 10 mA$		0.3
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C = 100 mA, I_B = 10 mA$		1
Transition frequency	f_T	MHz	$V_{CE} = 6 V, I_C = 10 mA$		180
Collector-base output capacitance	C_{ob}	pF	V		

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v627 / 3DFNDJH 2XWOLQH 'LPHQVLRQV

v627 / 6ROGHULQJ)RRWSULQW



Disclaimer

The information presented in this