



NPN General Purpose Amplifier

Features

- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- Epoxy meets UL-94 V-0 flammability rating, halogen-free

Mechanical Data

- **Package:** SOT-523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** 1P

■Maximum Ratings (Ta=25 Unless otherwise specified

Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage	V_{CEO}	V	$I_C=10mA, I_E=0$	40
Collector-Base Voltage	V_{CBO}	V	$I_C=10\mu A, I_E=0$	75
Emitter-Base Voltage	V_{EBO}	V	$I_E=10\mu A, I_C=0$	6



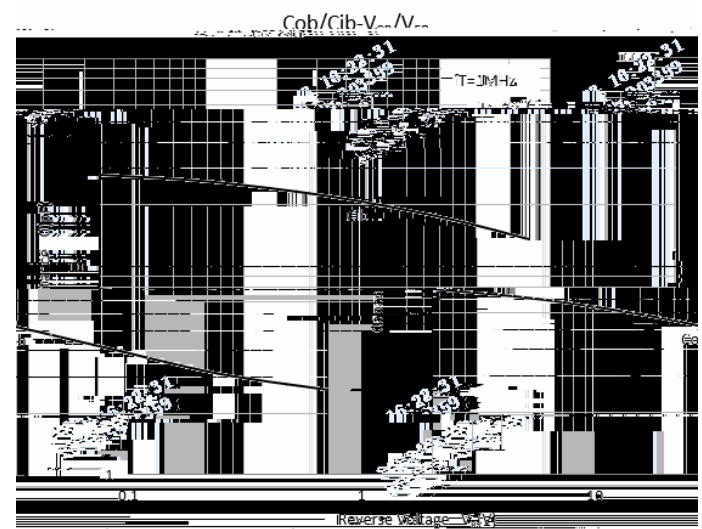
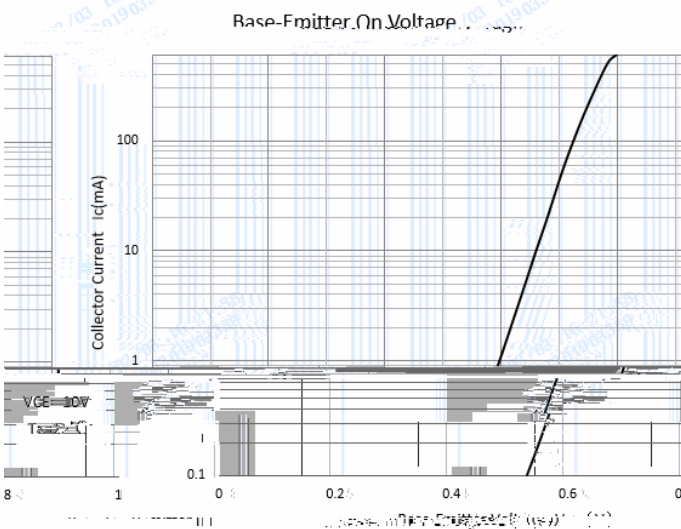
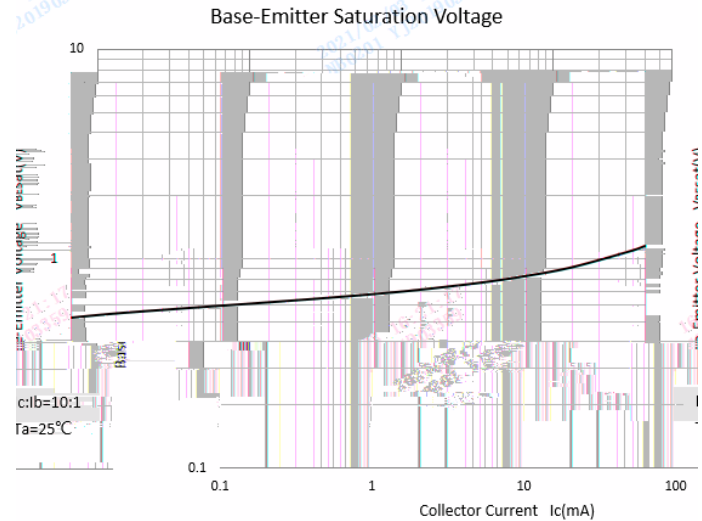
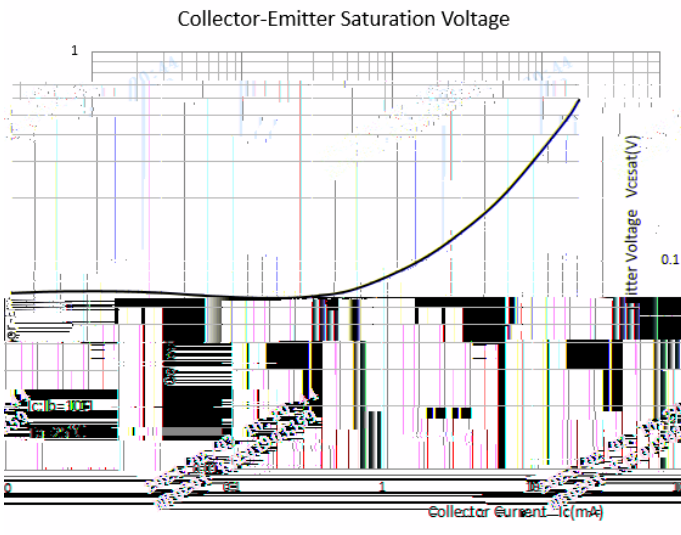
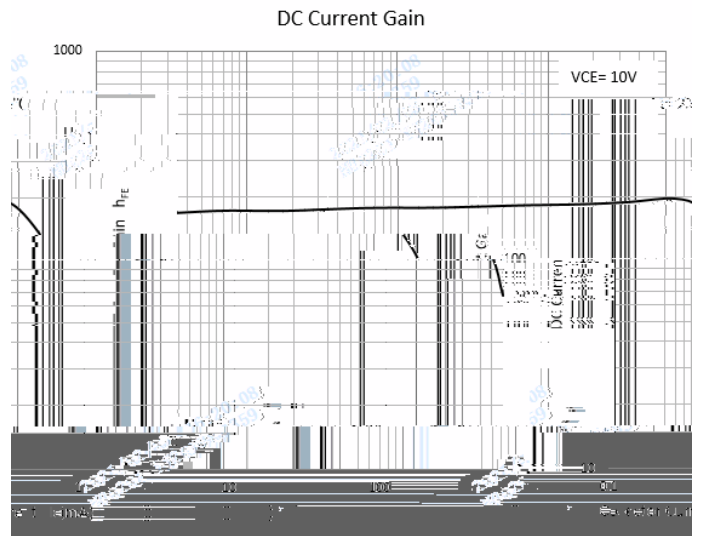
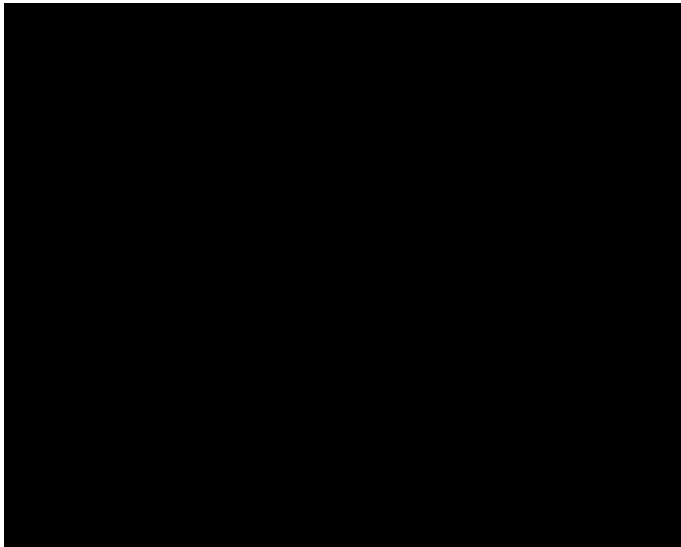
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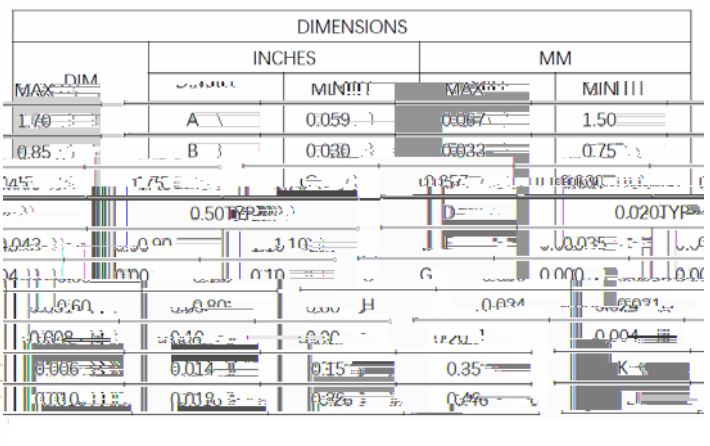
■Electrical Characteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V_{CE0}	V	$I_C=10\text{mA}$, $I_B=0$	40	
Collector-Base Voltage	V_{CBO}	V	$I_C=10\mu\text{A}$, $I_E=0$	75	
Emitter-Base Voltage	V_{EBO}	V	$I_E=10\mu\text{A}$, $I_C=0$	6	
Collector-base Cut-off Current	I_{CBO}	nA	$V_{CB}=70\text{Vdc}$		100
Emitter-base cut-off current	I_{EBO}	nA	$V_{EB}=3\text{Vdc}$		100
Collector-emitter Cut-off Current	I_{CEX}	nA	$V_{CE}=60\text{Vdc}$, $V_{EB}=3\text{Vdc}$		10
DC Current Gain	h_{FE}	I_C	$I_C=0.1\text{mA}$, $V_{CE}=10\text{Vdc}$	35	
			$I_C=1\text{mA}$, $V_{CE}=10\text{Vdc}$	50	



■ Characteristics (Typical)





DIMENSIONS	
DIM	MM (INCH)
A	1.00
B	0.40
C	0.60
D	1.24
E	0.60
F	0.50



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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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