



PNP Digital Transistors (Built-in Resistors)



Features

- Moisture sensitivity level 1
- Halogen free and RoHS compliant
- Surface mount package ideally suited for automatic insertion

Application

- Signal amplification
- Switching circuit

Mechanical data

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

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Device marking code				AB
Supply voltage	V_{CC}	V		-50
Input voltage	V_{IN}	V		-40 to +10
Output current	I_O	mA		-100
Power dissipation	P_D	mW		200
Junction temperature	T_J	$^\circ\text{C}$		-55 to +150
Storage temperature	T_{STG}	$^\circ\text{C}$		-55 to +150



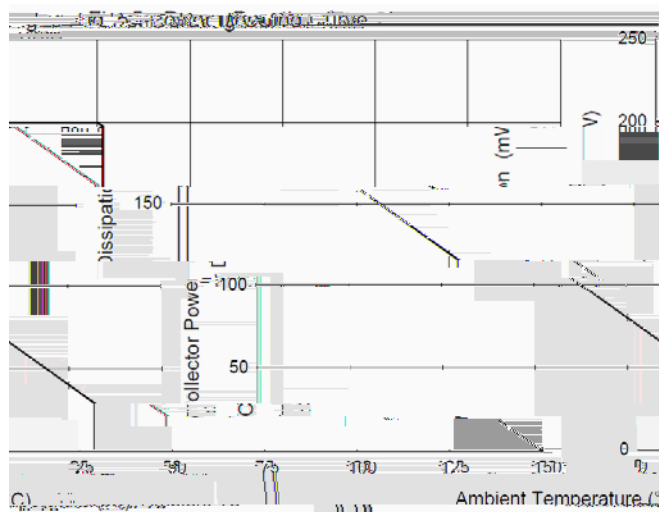
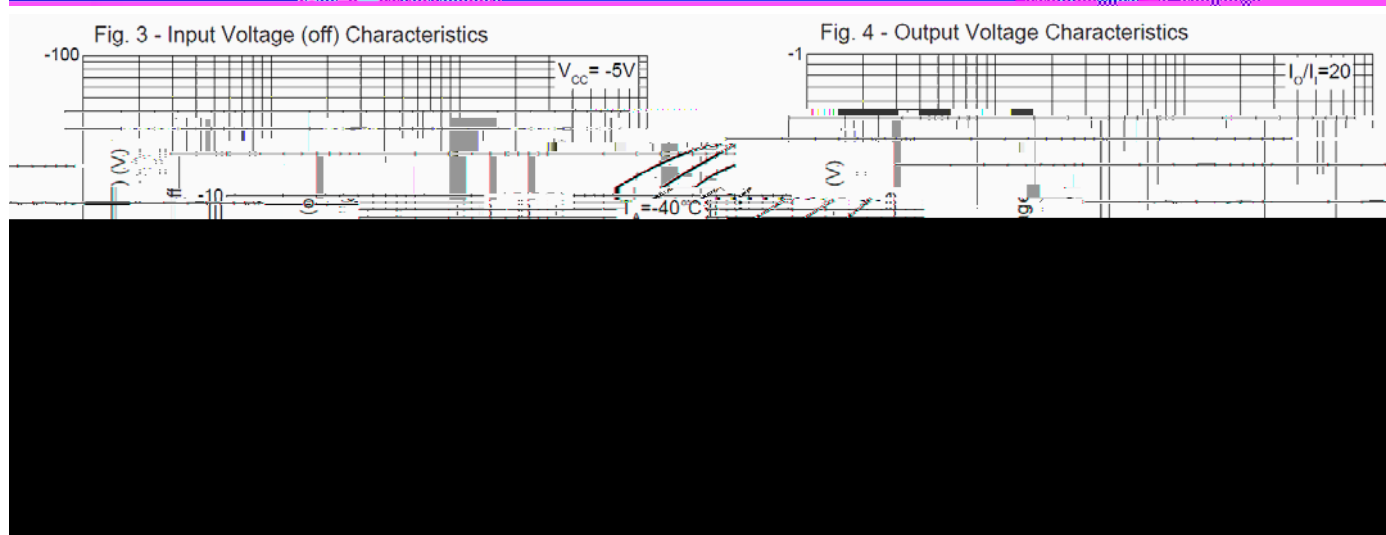
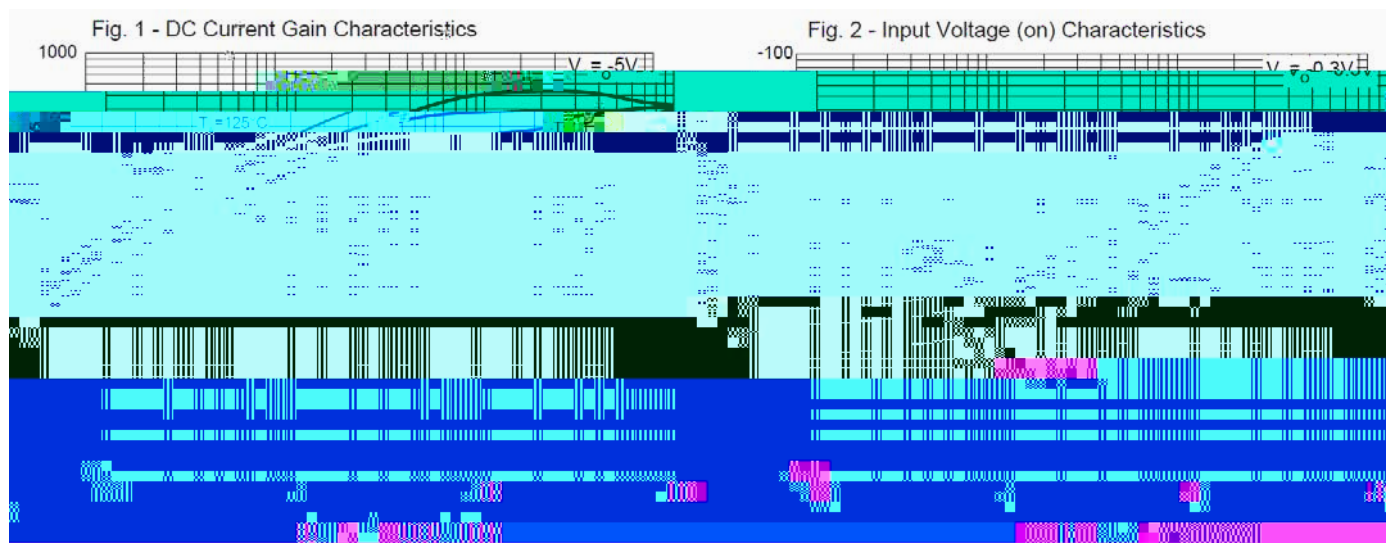
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■ Electrical Characteristics (T_a=25 Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Input voltage	V _{I(off)}	V	V _{CC} =-5V, I _O =-100uA	-0.5		
	V _{I(on)}	V	V _O =-0.3V, I _O =-1mA			-3.0
Output voltage	V _{O(on)}	V	I _O / I _I = -5mA / -0.25mA			-0.3
Input current	I _I	mA	V _I =-5V			-0.15
Output current	I _{O(off)}	uA	V _{CC}			



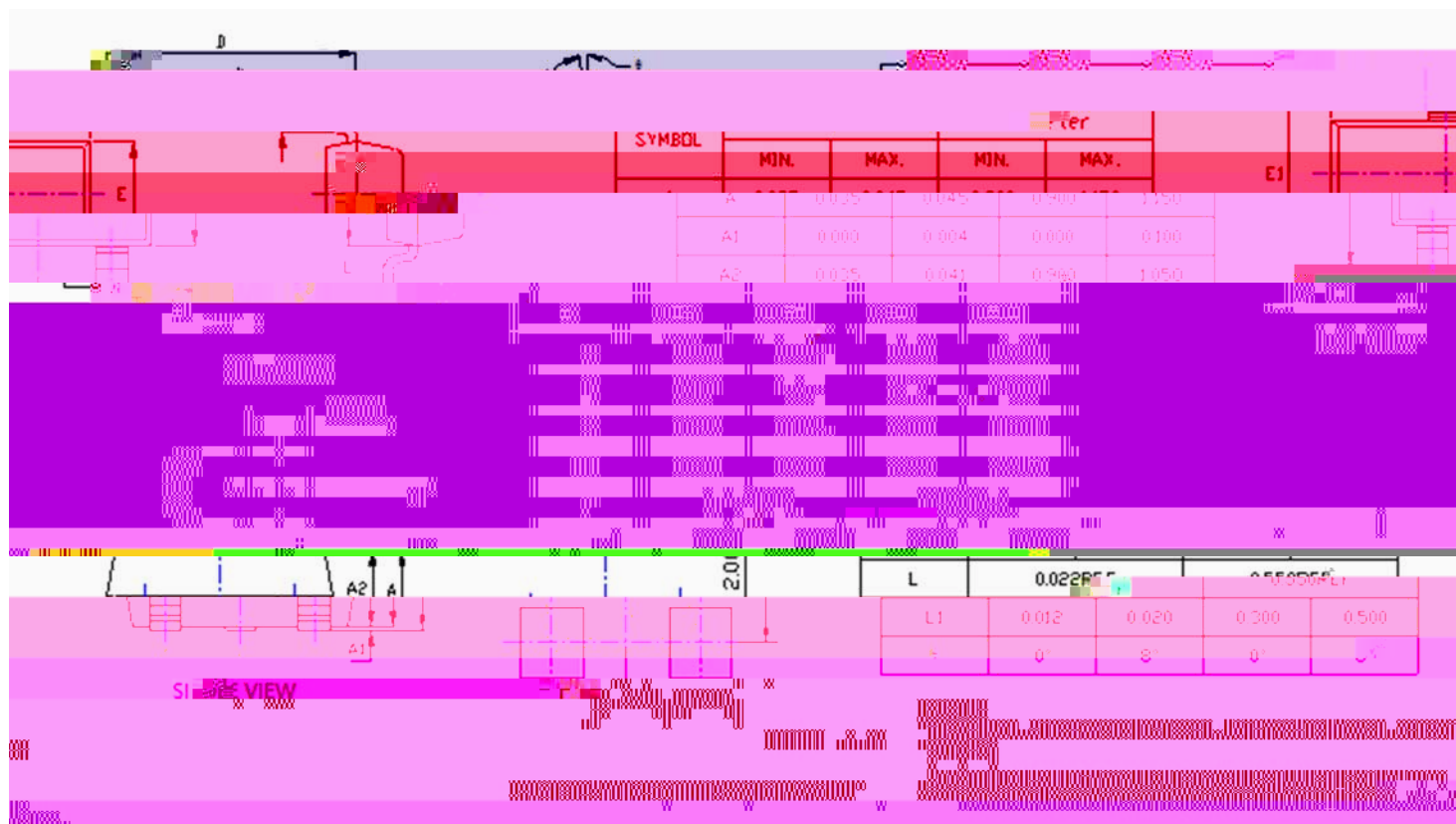
■Characteristics





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■ Outline Dimensions



Note:

1. All dimensions are in millimeters (mm) unless otherwise specified.

[所有尺寸均以毫米为单位，除非另有说明]

2. General tolerances: $\pm 0.10\text{mm}$ unless otherwise specified.

[通用公差为 $\pm 0.10\text{mm}$ ，除非另有说明]

3. Dimensions and tolerances per ASME Y14.5M-2018

[尺寸和公差遵循 ASME Y14.5M-2018 标准]

All dimensions are measured from the datum plane. Dimensions are not to be exceeded 0.15 mm in maximum.

[所有尺寸均不包括毛刺和浇口残留。毛刺与浇口残留的尺寸最大不得超过 0.15mm]

Does not include barrel protrusion of max 0.100 mm per side.

[尺寸不包括最大0.100 mm的引脚凸出部分]

Dimensions shown are overall extreme outer dimensions of the mold compound. These dimensions include mold flash, lead flash, protrusions and burrs but include the maximum allowable dimensions exclude mold mismatch.

[尺寸是型体的外部极限尺寸，不包括包转溢料、引针溢料、引出部分以及型体毛刺，但是包含了包转错位的最小尺寸]

Formed leads shall be planar with respect to one another within a maximum of 0.100 mm relative to the seating plane.

[成型的管脚应为同一平面，共面性最大为0.1mm]

★ KEY SIZE

★ KEY SIZE

[★ 标记为关键尺寸]



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