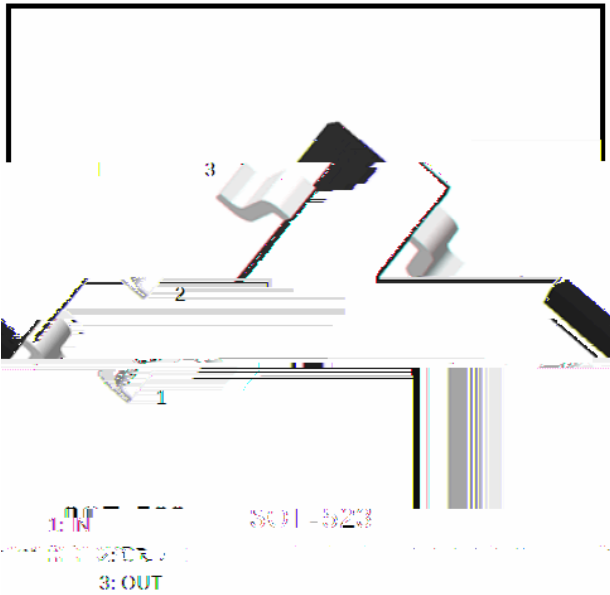


NPN Digital Transistors (Built-in Resistors)



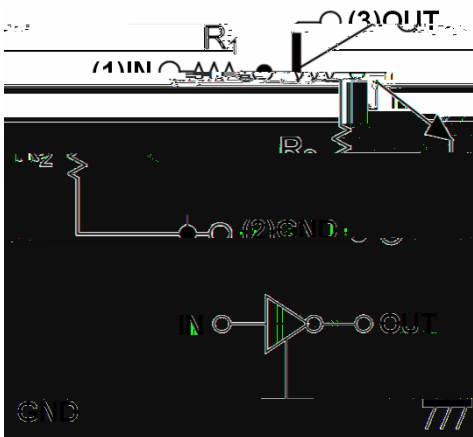
Features

- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- Halogen-free

Mechanical Data

- Package:** SOT-523
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:** 22

Equivalent circuit



Maximum Ratings (Ta=25 Unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V_{CC}	V		50
Input Voltage	V_{IN}	V		-10 to +12
Output Current	I_o	mA		100
Power Dissipation	P_D	mW		150
Junction Temperature	T_J			150
Storage Temperature	T_{STG}			-55 to +150



DTC123EE

Electrical Characteristics (Ta=25 unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
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Input voltage $V_{I(off)}$



Characteristics (Typical)

Fig. 1 - DC Current Gain Characteristics

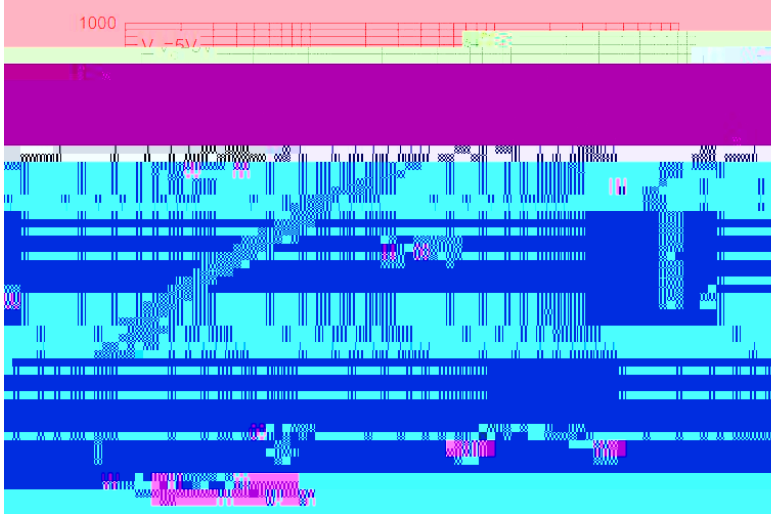


Fig. 2 - Input Voltage (on) Characteristics

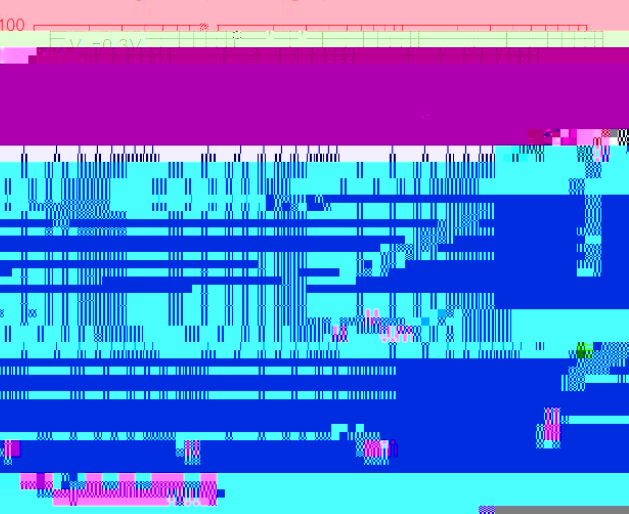


Fig. 3 - Input Voltage (off) Characteristics

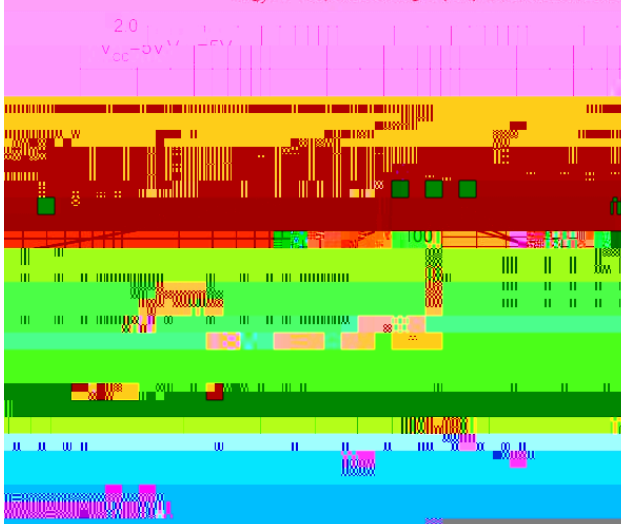
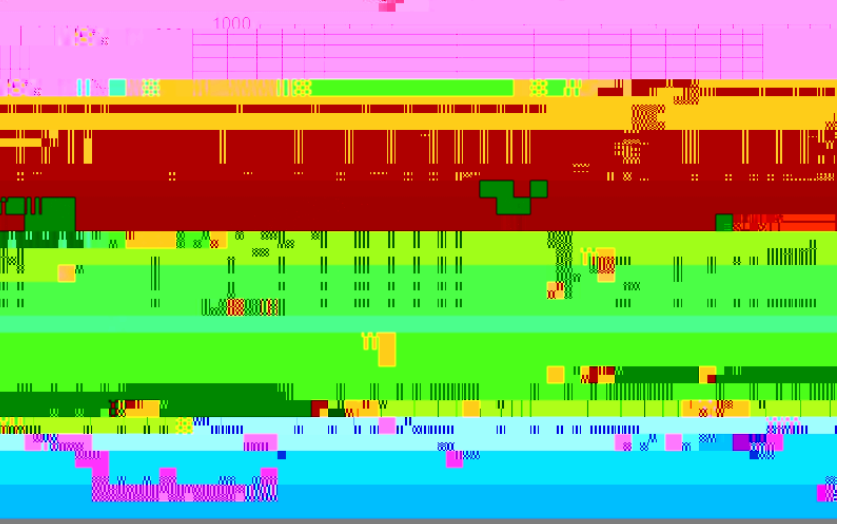


Fig. 4 - Output Voltage (DC) Characteristics





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