



## DTC123JE

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### NPN Digital Transistors (Built-in Resistors)

#### Features

Moisture Sensitivity Level 1

iS SI

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#### Mechanical Data

**Package:** SOT-523

**Terminals:** Tin plated leads, solderable per  
J-STD-002 and JESD22-B102

**Marking:** E42



# DTC123JE

## Electrical Characteristics (Ta=25 unless otherwise specified)

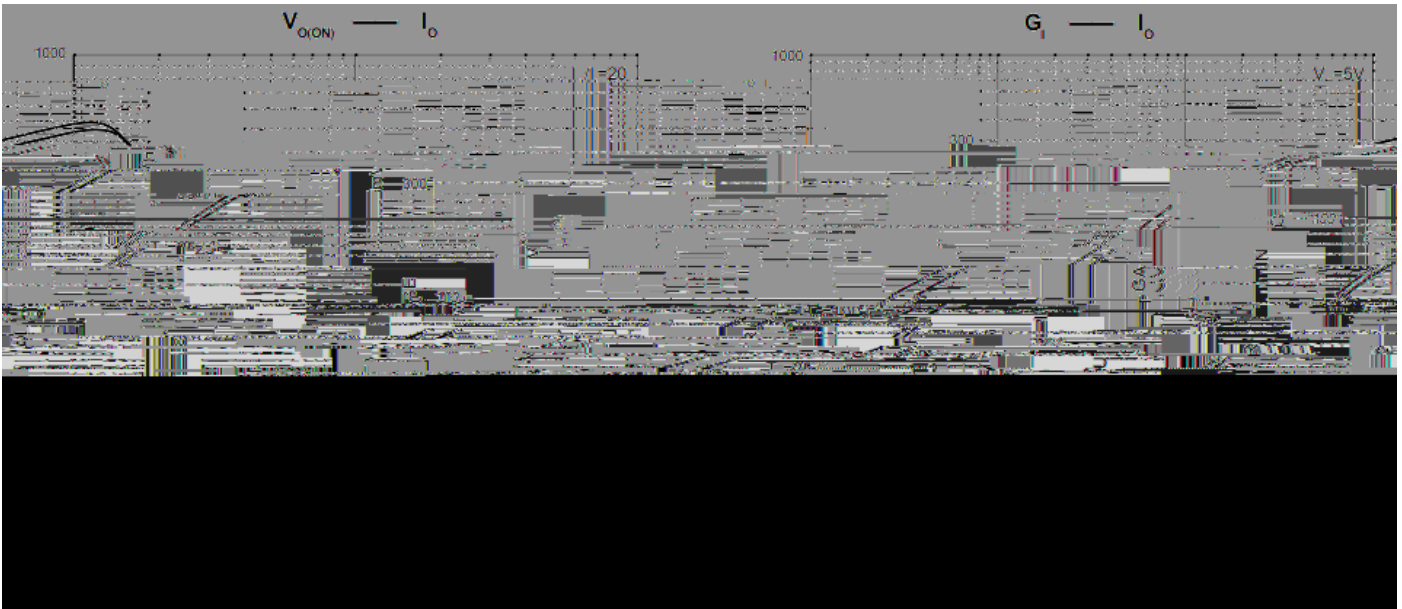
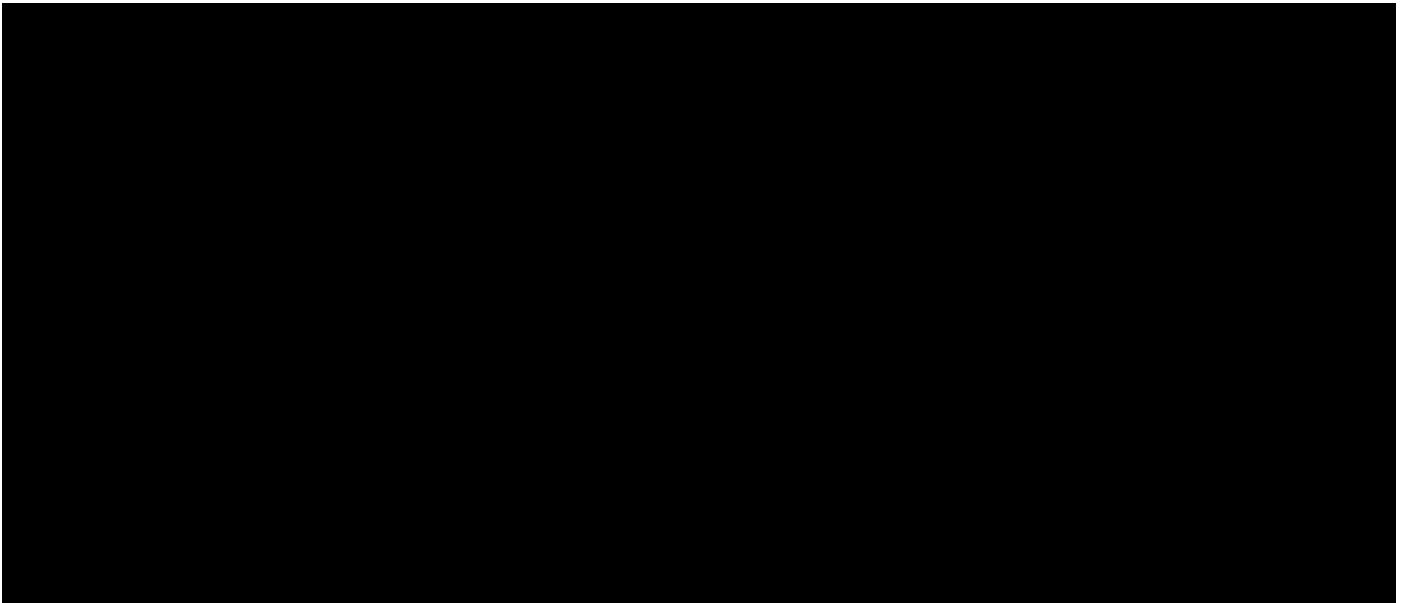
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	$V_{I(off)}$	V	$V_{CC}=5V, I_o=100\mu A$ $V_o=0.3V, I_o=5mA$	0.5	-	-
	$V_{I(on)}$	V		-	-	1.1
Output voltage	$V_{O(on)}$	V	$I_o / I_i = 5mA / 0.25mA$	-	-	0.3
Input current	$I_I$	mA	$V_I=5V$	-	-	3.6
Output current	$I_{O(off)}$	$\mu A$	$V_{CC}=50V, V_i=0$	-	-	0.5
DC current gain	$G_1$		$V_o=5V, I_o=10mA$	80	-	-
Input resistance	$R_1$	k		1.54	2.2	2.86
Resistance ratio	$R_2/R_1$			17	21	26
Transition frequency	$f_T$	MHz	$V_o=10V, I_o=5mA$	-	250	-

## Ordering Information (Example)

Preferred P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
DTC123JE	F2	Approximate 0.0027	3000	30000	120000	7" reel



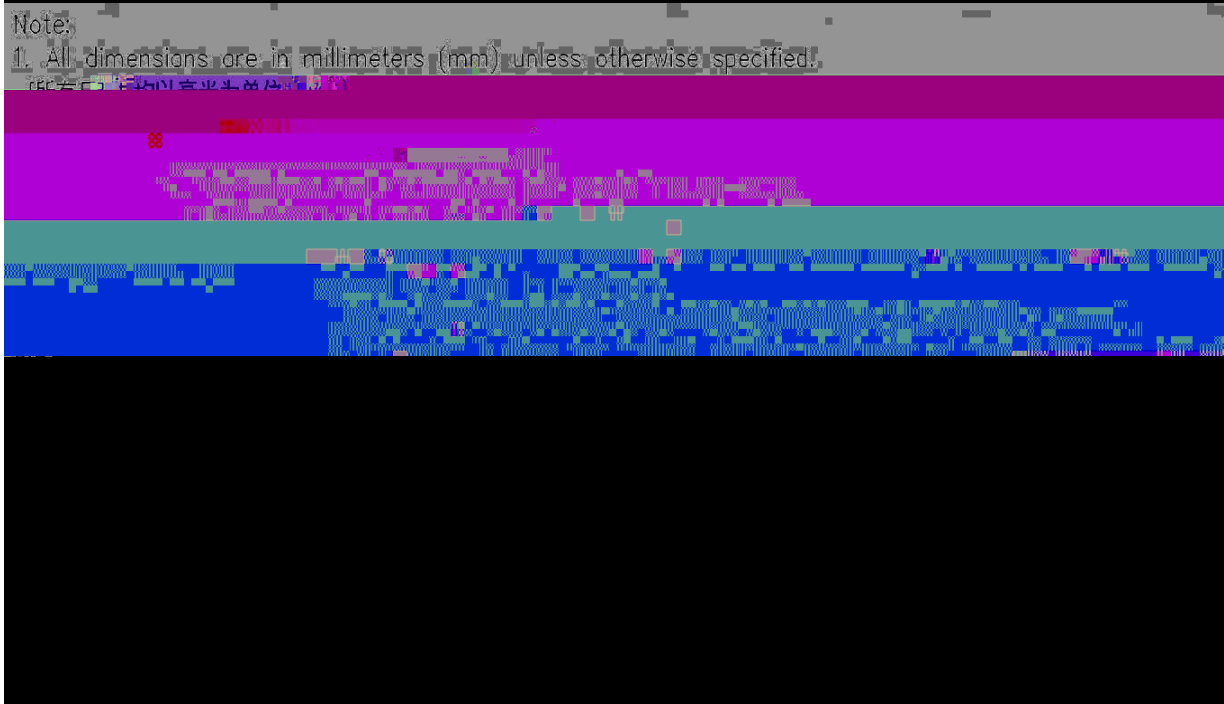
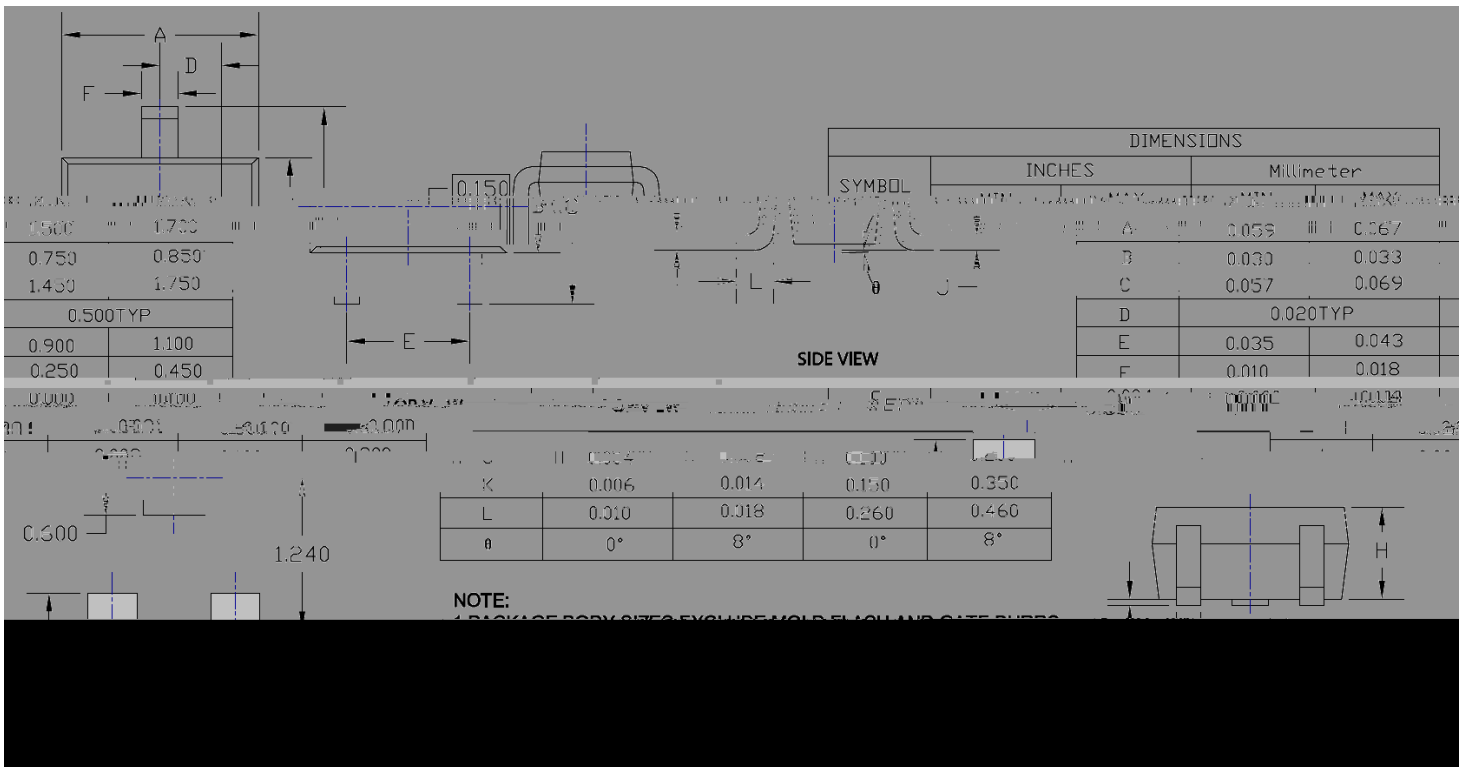
Characteristics (Typical)





# DTC123JE

## SOT-523 Package Outline Dimensions





## Disclaimer

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