DTC123JDC
NPN Digtal Transistor

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
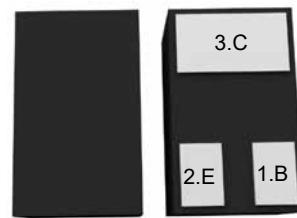
Equivalent Circuit

DFN1x0.6-3L
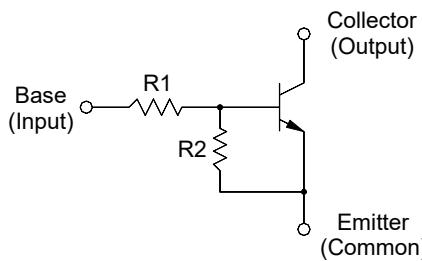
1.Base 2.Emitter 3.Collector

Resistor Values/Marking Code

Type	R1 (KΩ)	R2 (KΩ)	Marking Code
DTC123JDC	2.2	47	6E

Absolute Maximum Ratings (T_A=25℃)

Parameter	Symbol	Value	Unit
Output Voltage	V_O	50	V
Input Voltage	V_I	12,-5	V
Output Current	I_O	100	mA
Maximum Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
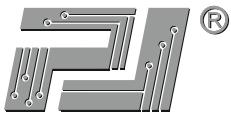
Electrical Characteristics (T$_A$=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V$_O$ = 5 V, I$_O$ = 10 mA	G$_I$	80	--	--	--
Output Cutoff Current at V$_O$ = 50 V	I$_{O(OFF)}$	--	--	500	nA
Input Cutoff Current at V$_I$ = 5 V	I$_I$	--	--	3.6	mA
Output Voltage (ON) at I$_O$ = -10 mA, I$_I$ = 0.5 mA	V$_{O(ON)}$	--	--	0.3	V
Input Voltage (ON) at V$_O$ = 0.2 V, I$_O$ = 5 mA	V$_{I(ON)}$	--	--	1.1	V
Input Voltage (OFF) at V$_{CC}$ = 5 V, I$_O$ = 0.1 mA	V$_{I(OFF)}$	0.5	--	--	V
Transition Frequency at V$_O$ = 10 V, I$_O$ = 5 mA	f$_T$	--	200	--	MHz

Typical Characteristic Curves
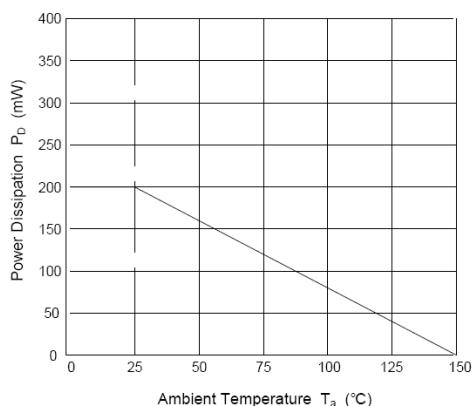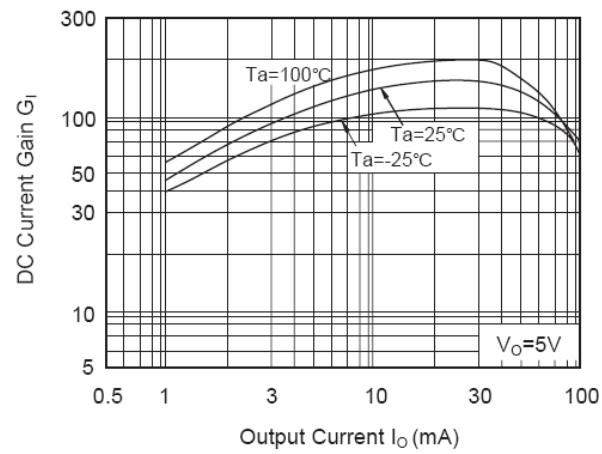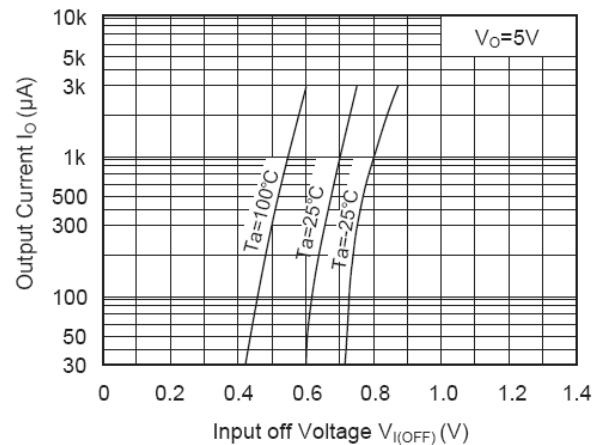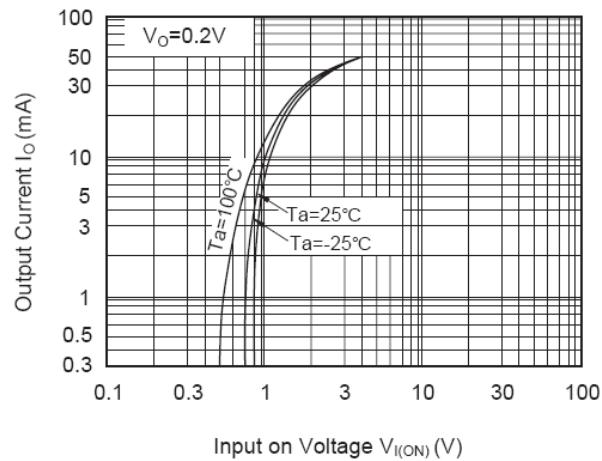
Package Outline

DFN1x0.6-3L-0009

Dimensions in mm
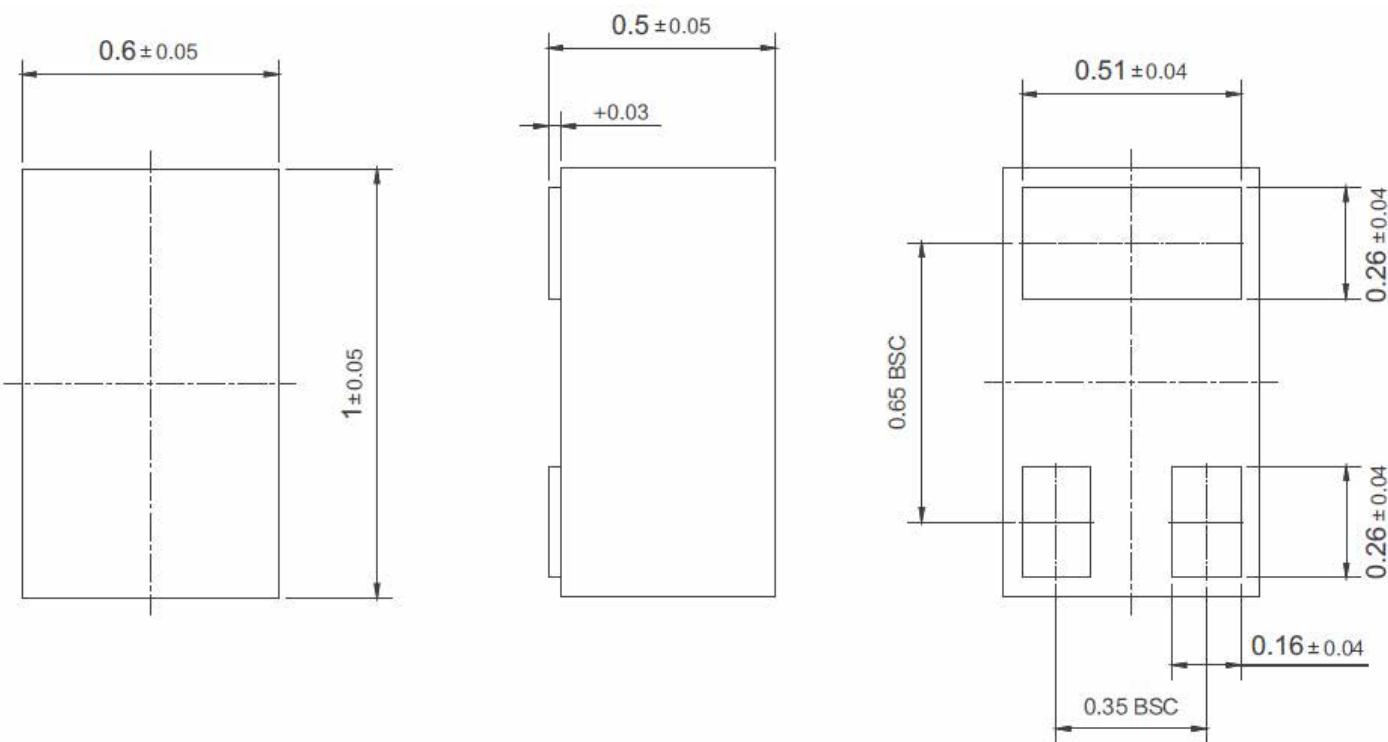
Ordering Information

Device	Package	Shipping
DTC123JDC	DFN1x0.6-3L	3,000PCS/Reel&7inches

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NSBA143TF3T5G NSBA144TF3T5G NSBC113EF3T5G NSBC124XF3T5G SMUN5330DW1T1G SSVMUN5312DW1T2G
RN1303(TE85L,F) RN1306(TE85L,F) RN4605(TE85L,F) TTEPROTOTYPE79 EMH15T2R SMUN2214T3G SMUN5335DW1T1G
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 SMUN5237DW1T1G SMUN5213DW1T1G SMUN5114DW1T1G SMUN2111T1G DTC124ECA-TP DTC123TM3T5G DTA114ECA-TP
DTA113EM3T5G DTC113EM3T5G NSVMUN5135DW1T1G NSVMUN2237T1G NSVDTC143ZM3T5G SMUN5335DW1T2G
SMUN5216DW1T1G NSVMUN5316DW1T1G NSVMUN5215DW1T1G