DTC144EDC
NPN Digtal Transistor

Features

DFN1x0.6-3L

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
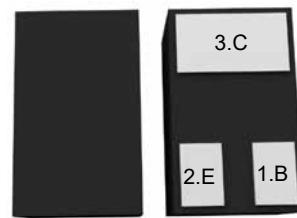
1.Base 2.Emitter 3.Collector

Equivalent Circuit

Resistor Values/Marking Code

Type	R1 (KΩ)	R2 (KΩ)	Marking Code
DTC144EDC	47	47	6D

Absolute Maximum Ratings (T$_A$=25℃)

Parameter	Symbol	Value	Unit
Output Voltage	V$_O$	50	V
Input Voltage	V$_I$	40,-10	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
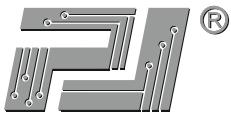
Electrical Characteristics (T$_A$=25℃)

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$_I$	--	--	0.18	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$_{I(ON)}$	--	--	5	V
Input Voltage (OFF) at V$_{CC}$ = 5 V, I$_O$ = 0.1 mA	V$_{I(OFF)}$	1	--	--	V
Transition Frequency at V$_O$ = 10 V, I$_O$ = 5 mA	f$_T$	--	200	--	MHz

Typical Characteristic Curves
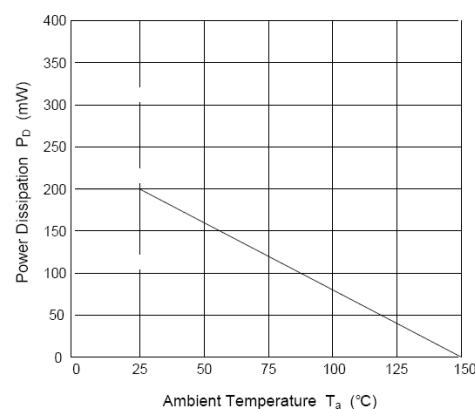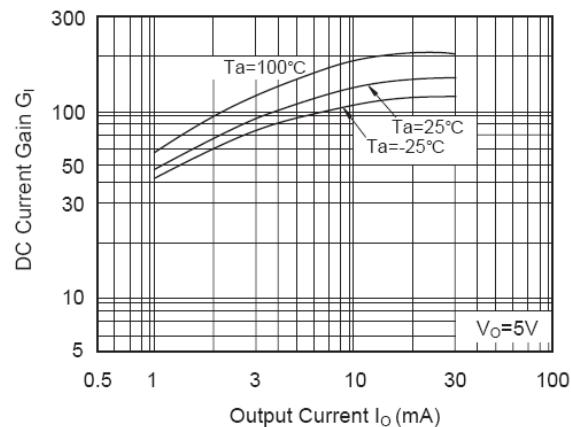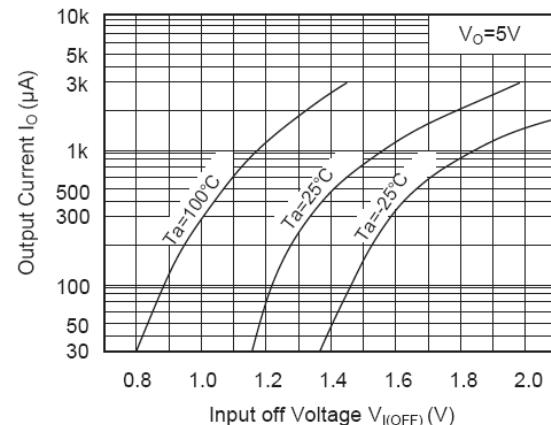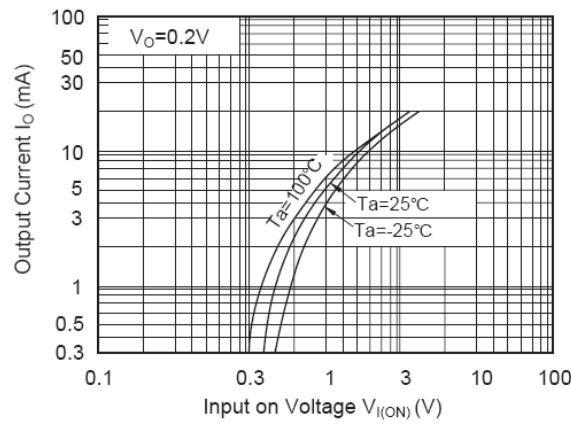
Package Outline

DFN1x0.6-3L-0009

Dimensions in mm
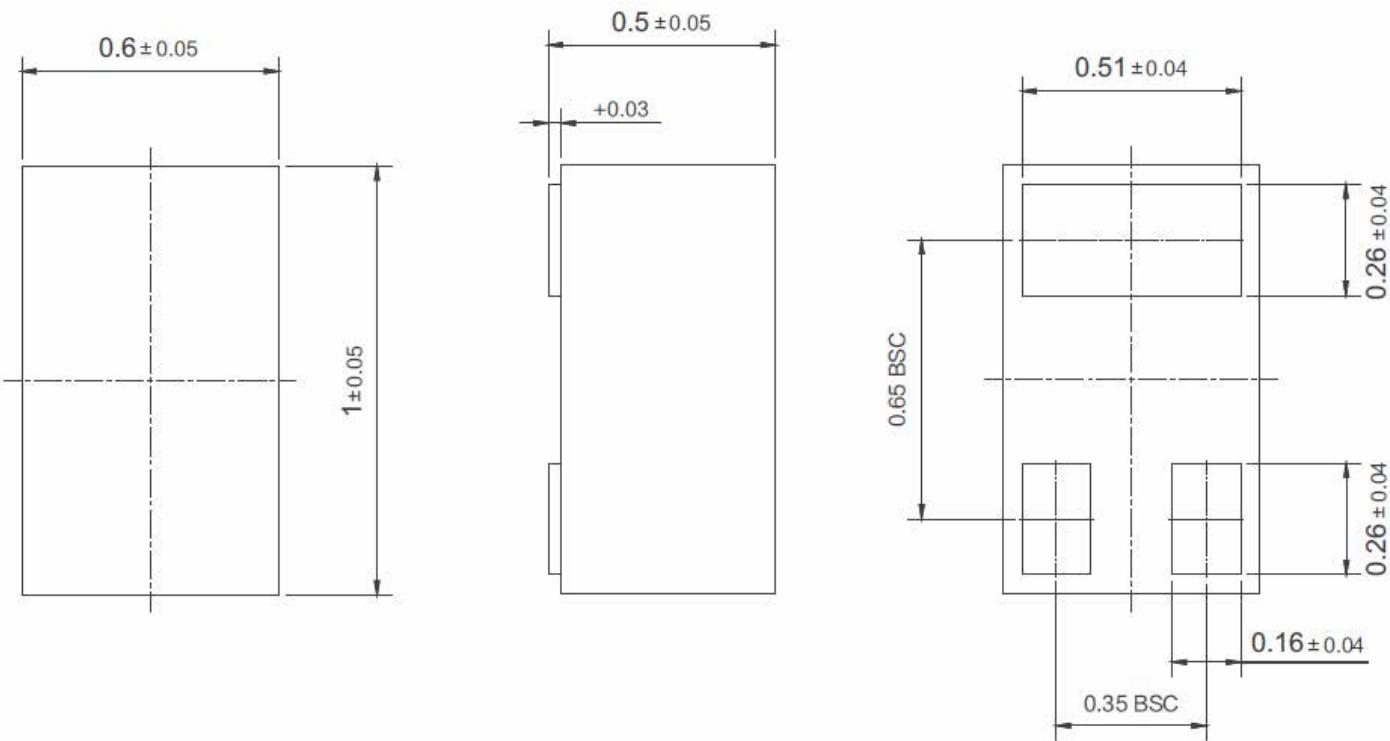
Ordering Information

Device	Package	Shipping
DTC144EDC	DFN1x0.6-3L	3,000PCS/Reel&7inches

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