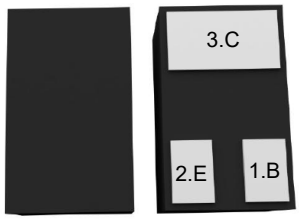
DTA114YDC
PNP Digtal Transistor

Features

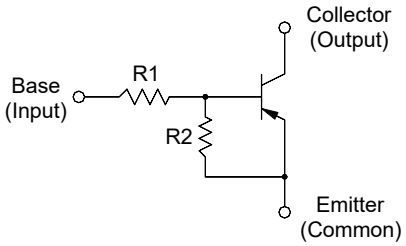
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process

DFN1x0.6-3L



1.Base 2.Emitter 3.Collector

Equivalent Circuit



Resistor Values/Marking Code

Type	R1 (KΩ)	R2 (KΩ)	Marking Code
DTA114YDC	10	47	8G

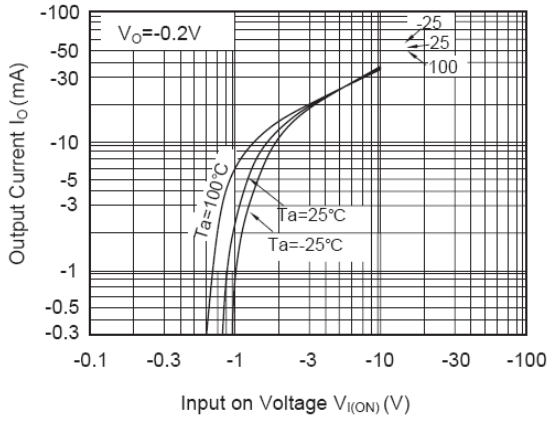
Absolute Maximum Ratings (T_A=25℃)

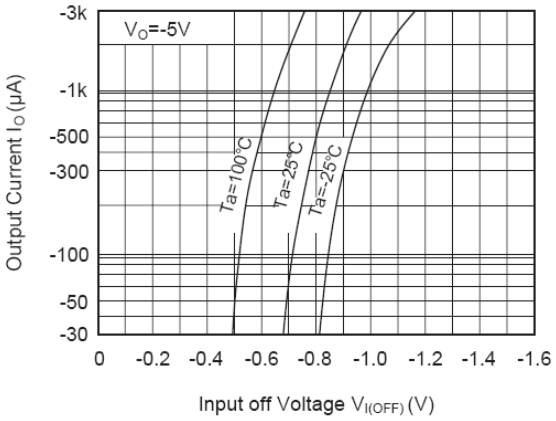
Parameter	Symbol	Value	Unit
Output Voltage	$-V_O$	50	V
Input Voltage	$-V_I$	30,-6	V
Output Current	$-I_O$	100	mA
Maximum Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

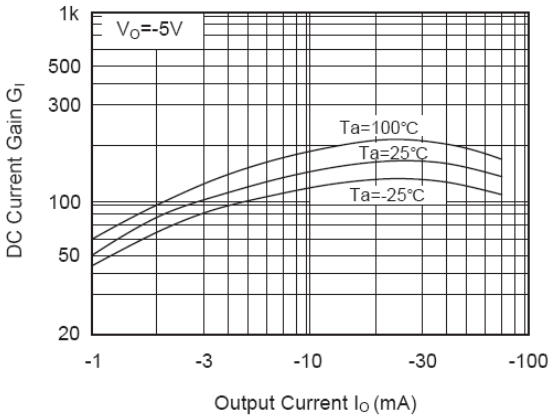
Electrical Characteristics (T_A=25℃)

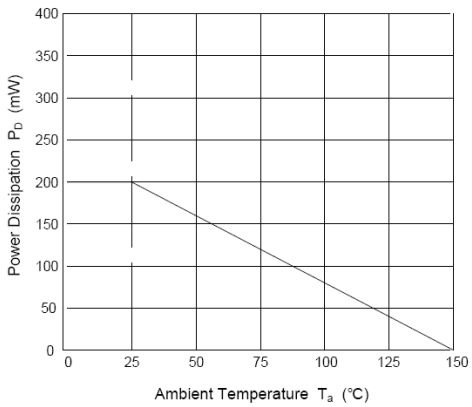
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V_O = -5 V, I_O = -10 mA	G_I	80	--	--	--
Output Cutoff Current at V_O = -50 V	$-I_{O(OFF)}$	--	--	500	nA
Input Current at V_I = -5 V	$-I_I$	--	--	0.88	mA
Output Voltage (ON) at I_O = -10 mA, I_I = -0.5 mA	$-V_{O(ON)}$	--	--	0.3	V
Input Voltage (ON) at V_O = -0.2 V, I_O = -5 mA	$-V_{I(ON)}$	--	--	1.8	V
Input Voltage (OFF) at V_O = -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



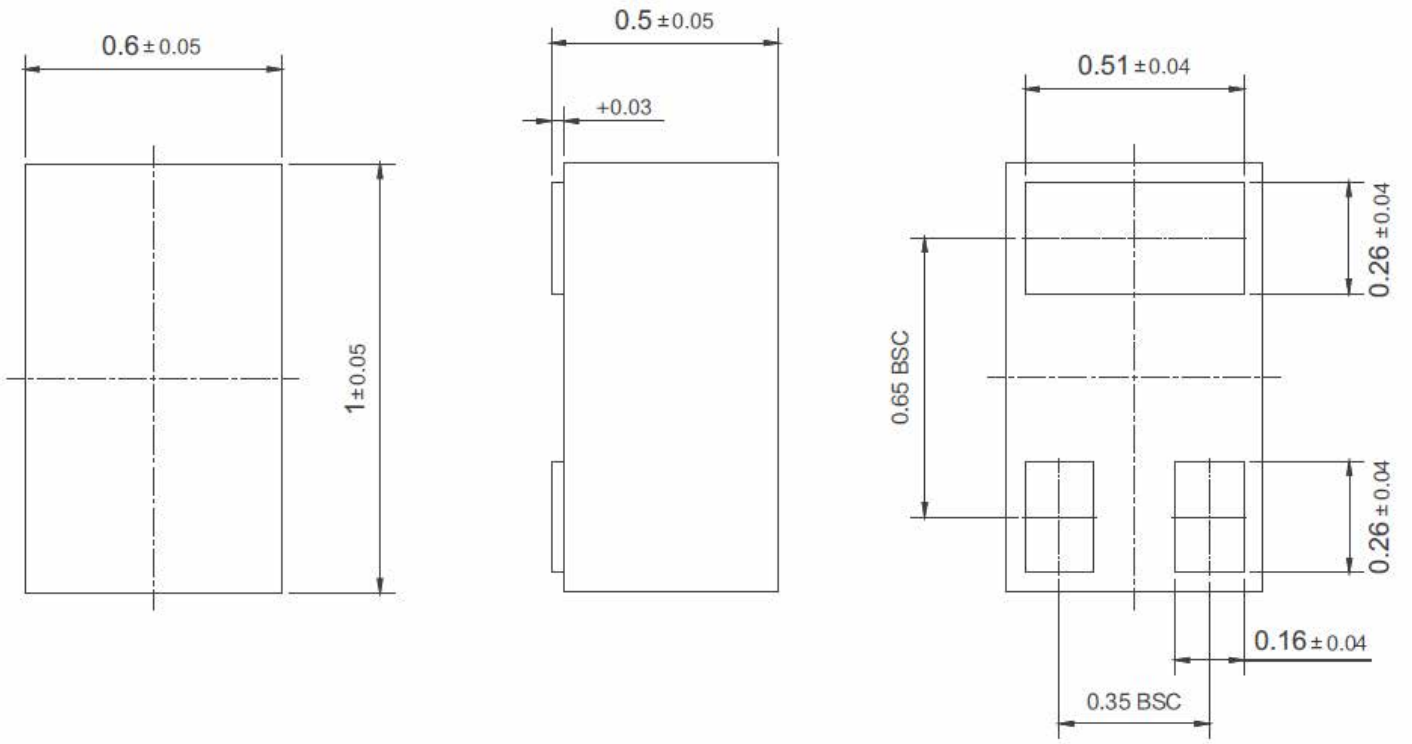






Package Outline

DFN1x0.6-3L-0009
Dimensions in mm



Ordering Information

Device	Package	Shipping
DTA114YDC	DFN1x0.6-3L	3,000PCS/Reel&7inches