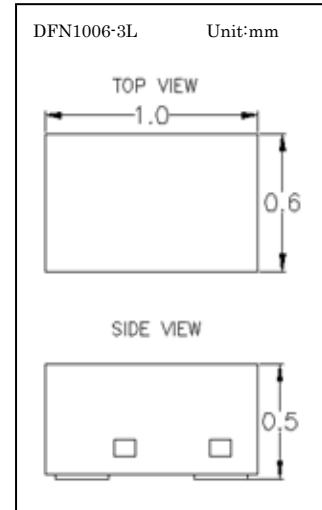
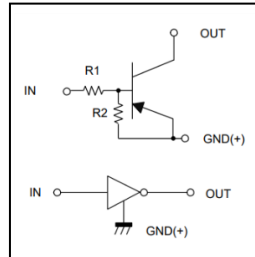


- ◇ Epitaxial planar die construction
- ◇ Operating and Storage Junction Temperatures: -55°C to 150°C
- ◇ RoHS compliant / Green EMC
- ◇ Built-In Biasing Resistors

Device	Marking
DTA114EN3	14

Equivalent Circuit



### Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V <sub>CC</sub>	Supply Voltage	- 50	V
V <sub>IN</sub>	Input Voltage	- 40 ~ +10	V
I <sub>O</sub>	Output Current	- 50	mA
I <sub>CM</sub>	Peak Collector Current	- 100	mA
P <sub>D</sub>	Power Dissipation	150	mW
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	- 55 ~ +150	°C

### Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
V <sub>I(off)</sub>	Input Voltage	V <sub>CC</sub> = 5V, I <sub>O</sub> = -100μA	-0.5			V
V <sub>I(on)</sub>		V <sub>O</sub> = 0.3V, I <sub>O</sub> = -10mA			- 3	V
V <sub>O(on)</sub>	Output Voltage	I <sub>O</sub> /I <sub>I</sub> = -10mA/- 0.5mA			- 0.3	V
I <sub>I</sub>	Input Current	V <sub>I</sub> = -5V			- 0.88	mA
I <sub>O(off)</sub>	Output Current	V <sub>CC</sub> = - 50V, V <sub>I</sub> = 0			- 0.5	uA
G <sub>1</sub>	DC Current Gain	V <sub>O</sub> = - 5V, I <sub>O</sub> = - 5mA	30			
R <sub>1</sub>	Input Resistance		7	10	13	kΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance Ratio		0.8	1	1.2	
f <sub>T</sub>	Transition Frequency	V <sub>CE</sub> = -10V, I <sub>O</sub> = -5mA, f=100MHz		250		MHz

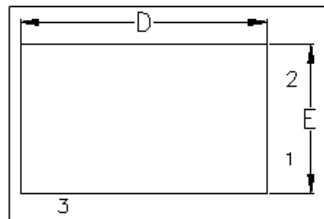
## Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
DTA114EN3	DFN1006-3L	Tape & Reel 10000pcs / 7" Reel	8mm	4mm	Conductive	

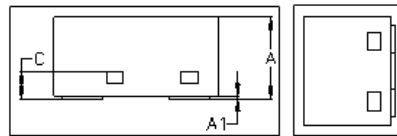
## Package Dimensions

Package outline : DFN1006-3L

Top view

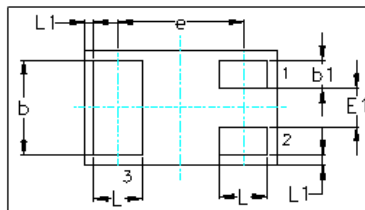


Side view

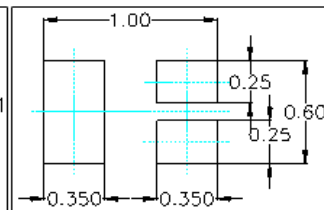


SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0.00	0.025	0.05
b	0.45	0.50	0.55
b1	0.10	0.15	0.20
C	0.12	0.15	0.18
D	0.95	1.00	1.05
E	0.55	0.60	0.65
E1	0.15	0.20	0.25
e	0.65BSC		
L	0.20	0.25	0.30
L1	0.05 REF.		

Back view



Soldering Pattern



Notice:

- 1 Lead plating: Pb free solder
- 2 Lead thickness includes solder plating
- 3 Other Tolerance:  $\pm 0.05$
- 4 Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
- 5 Unit: mm