

**Micro Commercial Components** 



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## **Features**

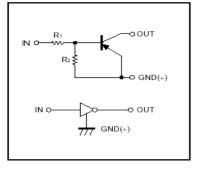
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias resistors consist of thin-film resistors with complete isolation to allow negative biasing of the input. They also have the advantage of almost completely eliminating parasitic effects.
- Only the on/off conditions need to be set for operation, making device design easy Halogen free available upon request by adding suffix "-HF"
- Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V <sub>cc</sub>	Supply voltage		-50		V
V <sub>IN</sub>	Input voltage	-40		10	V
I <sub>O</sub> I <sub>C(MAX)</sub>	Output current		-30 -100		mA
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T <sub>stg</sub>	Storage temperature	-55		150	°C

### **Electrical Characteristics @ 25°C**

Symbol	Parameter	Min	Тур	Max	Unit
V <sub>I(off)</sub>	Input voltage (V <sub>CC</sub> =-5V, I <sub>O</sub> =-100 µ A)			-0.5	V
V <sub>I(on)</sub>	(V <sub>o</sub> =-0.3V, I <sub>o</sub> =-2mA)	-3.0			V
V <sub>O(on)</sub>	Output voltage (I <sub>0</sub> /I <sub>I</sub> =-10mA/-0.5mA			-0.3	V
l,	Input current (V <sub>I</sub> =-5V)			-0.18	mA
I <sub>O(off)</sub>	Output current (V <sub>CC</sub> =-50V, V <sub>I</sub> =0)			-0.5	μA
Gı	DC current gain (V <sub>o</sub> =-5V, I <sub>o</sub> =-5mA)	68			
R₁	Input resistance	32.9	47	61.1	KΩ
$R_2/R_1$	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency (V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz)		250		MHz

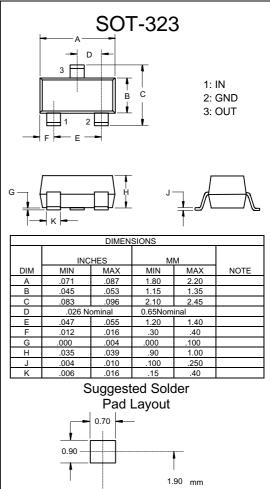
#### Equivalent circuit



\*Marking: 16

## **PNP Digital Transistors**

DTA144EUA



0.65

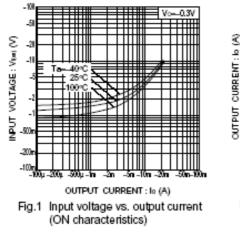
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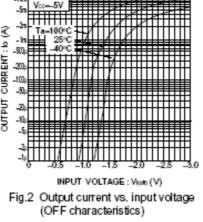
## www.mccsemi.com

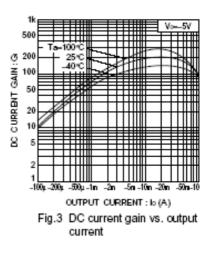
#### **Revision:** C

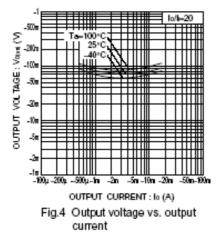
## DTA144EUA











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## **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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