

Micro Commercial Components

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Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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

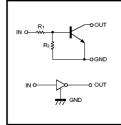
Absolute maximum ratings @ 25° C

Symbol	Parameter	Min	Тур	Max	Unit
V _{cc}	Supply voltage		50		V
V _{IN}	Input voltage	-6		40	V
I _O I _{C(MAX)}	Output current		70 100		mA
Pd	Power dissipation		150		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C

Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =5V, I _O =100 µ A)			0.3	V
V _{I(on)}	(V ₀ =0.3V, I ₀ =1mA)	1.4			V
V _{O(on)}	Output voltage (I ₀ /I _I =5mA/0.25mA)		0.1	0.3	V
L.	Input current (V _I =5V)			0.88	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μA
Gı	DC current gain (V ₀ =5V, I ₀ =5mA)	68			
R1	Input resistance	7.0	10	13	KΩ
R_2/R_1	Resistance ratio	3.7	4.7	5.7	
f⊤	Transition frequency (V _{CE} =10V, I _E =5mA, f=100MHz)		250		MHz

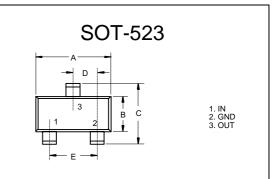
Equivalent circuit

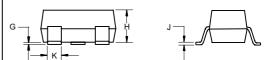


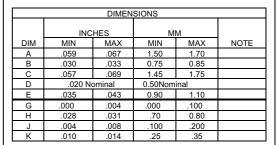
*Marking: 64

DTC114YE

NPN Digital Transistors







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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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