

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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

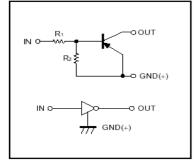
Absolute maximum ratings @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V _{cc}	Supply voltage		-50		V
V _{IN}	Input voltage	-40		10	V
I _O I _{C(MAX)}	Output current		-50 -100		mA
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C

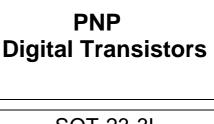
Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{cc} =-5V, I _o =-100 µ A)			-0.5	V
V _{I(on)}	(V ₀ =-0.3V, I ₀ =-10mA)	-3.0			V
V _{O(on)}	Output voltage (I ₀ /I ₁ =-10mA/-0.5mA			-0.3	V
I,	Input current (V _I =-5V)			-0.88	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μΑ
Gı	DC current gain (V _o =-5V, I _o =-5mA)	30			
R ₁	Input resistance	7.0	10	13	KΩ
R ₂ /R ₁	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency (V _{CF} =-10V, I _F =5mA, f=100MHz)		250		MHz

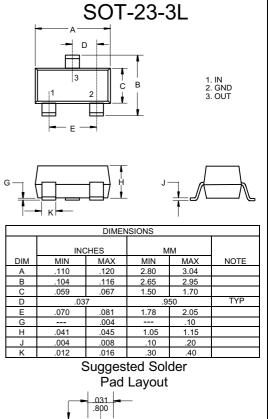
Equivalent circuit



MARKING: 14



DTA114EKA



<u>.087</u> 2 200

<u>.037</u> .950

.037 950

www.mccsemi.com

inches



Ordering Information

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

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