

Micro Commercial Components



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

Features

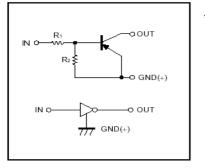
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias 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 _{cc}	Supply voltage		-50		V
V _{IN}	Input voltage	-30		10	V
I _O I _{C(MAX)}	Output current		-100 -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 _o =-0.3V, I _o =-20mA)	-3.0			V
V _{O(on)}	Output voltage (I ₀ /I _I =-10mA/-0.5mA			-0.3	V
I,	Input current (V _I =-5V)			-1.8	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μΑ
G	DC current gain (Vo=-5V, Io=-10mA)	30			
R ₁	Input resistance	3.29	4.7	6.11	KΩ
R ₂ /R ₁	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

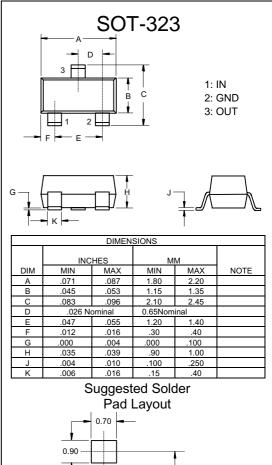
Equivalent circuit



*Marking: 13



DTA143EUA



0.65

0.65

www.mccsemi.com

Revision: C

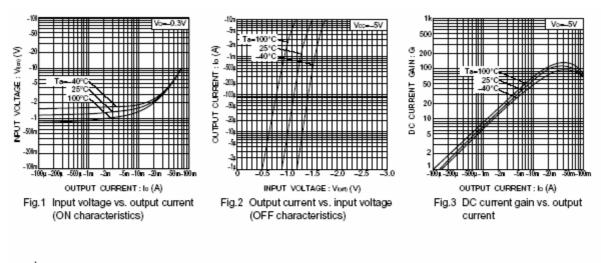
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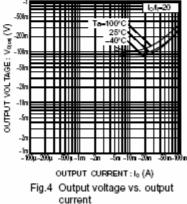
1.90 mm

DTA143EUA



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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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