

Micro Commercial Components



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

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- **Epitaxial Planar Die Construction**
- Complementary PNP Types Available •
- **Built-In Biasing Resistors** .
- Epoxy meets UL 94 V-0 flammability rating .
- Moisure Sensitivity Level 1
- Marking: 43
- Halogen free available upon request by adding suffix "-HF"

Absolute maximum ratings @ 25°C

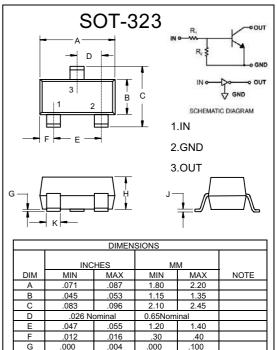
Symbol	Parameter	Min	Тур	Max	Unit
Vcc	Supply voltage		50		mA
Ιc	Collector current		100		mA
V _{IN}	Input voltage	-7		+20	V
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C

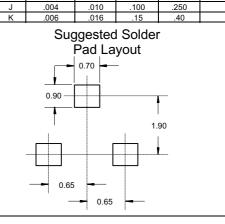
Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{cc} =5V, I _o =100 µ A)			0.3	V
V _{I(on)}	(V _o =0.3V, I _o =20mA)	2.5			V
V _{O(on)}	Output voltage (I _o =10mA,I _i =0.5mA)		0.1	0.3	V
lı lı	Input current (V _I =5V)			1.8	mA
I _{O(off)}	Output current (V _{CC} =50V, V _I =0)			0.5	μA
Gı	DC current gain (V ₀ =5V, I ₀ =10mA)	30			
R ₁	Input resistance	3.29	4.7	6.11	KΩ
R ₂ /R ₁	Resistance ratio	1.7	2.1	2.6	
f⊤	Transition frequency (V _{CE} =10V, I _E =5mA, f=100MHz)		250		MHz

DTC143XUA

Digital Transistors





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Revision: C



DTC143XUA

Typical Characteristics

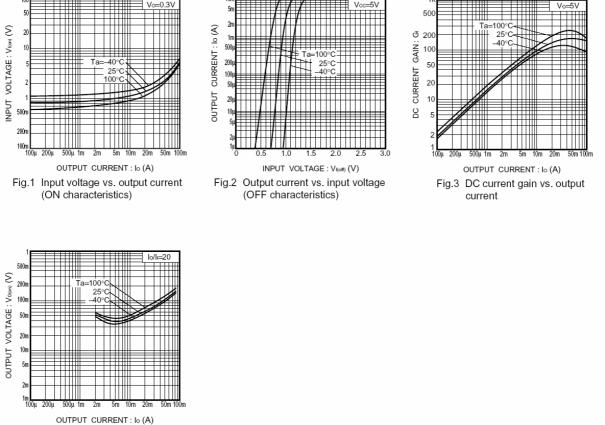


Fig.4 Output voltage vs. output current

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Ordering Information :

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

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

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