

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DTC143XCA

Features

- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: 43

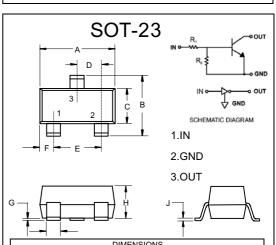
Absolute maximum ratings @ 25°

Symbol	Parameter	Min	Тур	Max	Unit
Ic	Collector current		100		mA
V _{IN}	Input voltage	-7		+20	V
P_d	Power dissipation		200		mW
T_{j}	Junction temperature		150		$^{\circ}$
T_{stg}	Storage temperature	-55		150	$^{\circ}$

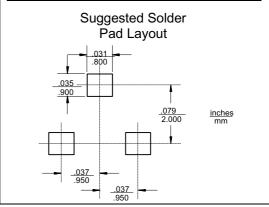
Electrical Characteristics @ 25°C

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)				V
$V_{O(on)}$	Output voltage (I _O =10mA,I _i =0.5mA)		0.1	0.3	V
I_{l}	Input current (V _i =5V)			1.8	mA
$I_{O(off)}$	Output current (V _{CC} =50V, V _I =0)			0.5	μА
Gı	DC current gain (V ₀ =5V, I ₀ =10mA)	30			
R ₁	Input resistance	3.29	4.7	6.11	$\mathbf{K}\Omega$
R_2/R_1	Resistance ratio	1.7	2.1	2.6	
f _T	Transition frequency (V _{CE} =10V, I _E =5mA, f=100MHz)		250		MHz

Digital Transistors



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
С	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Н	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		





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Typical Characteristics

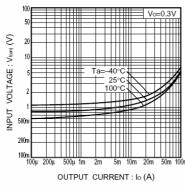


Fig.1 Input voltage vs. output current (ON characteristics)

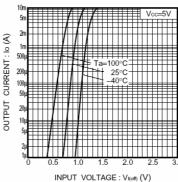


Fig.2 Output current vs. input voltage (OFF characteristics)

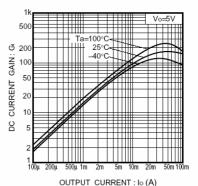


Fig.3 DC current gain vs. output current

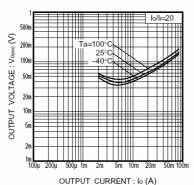


Fig.4 Output voltage vs. output current



Ordering Information

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

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