

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

DTC143TCA

Features

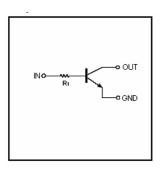
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epitaxial Planar Die Construction
- Built-In Biasing Resistors
- Marking:03
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Absolute maximum ratings @ 25° C

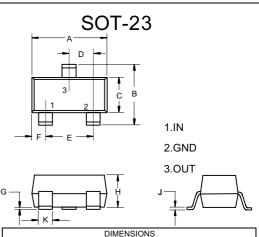
Symbol	Parameter	Min	Тур	Max	Unit
$V_{(BR)CBO}$	Collector-Base Voltage	50		V	
$V_{(BR)CEO}$	Collector-Emitter Voltage	nitter Voltage 50			V
$V_{(BR)EBO}$	Emitter-Base Voltage	5			V
I _C	Collector current		100		mA
P_d	Power dissipation		200		mW
T _i	Junction temperature		150		$^{\circ}$
T _{stg}	Storage temperature	-55	-	150	$^{\circ}$

Electrical Characteristics @ 25°C

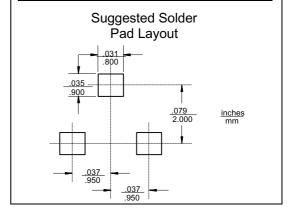
Symbol	Parameter	Min	Тур	Max	Unit
$V_{(BR)CBO}$	Collector-Base Voltage (IC=50uA)				V
$V_{(BR)CEO}$	Collector-Base Voltage (Ic=1mA)	50			V
$V_{(BR)EBO}$	Collector-Base Voltage (IE=50uA)	5	-		V
I _{CBO}	Collector cut-off current (V _{CB} =50V)			0.5	uA
I _{EBO}	Emitter cut-off current (V _{EB} =4V)			0.5	uA
h _{FE}	DC current transfer ratio(VcE=5V,lc=1mA)	100		600	
R ₁	Input resistance	3.29	4.7	6.11	ΚΩ
f _T	Transition frequency(Vo=10V,lo=5mA,f=100MHz)		250		MHz
V _{CE(sat)}	Collector-emitter saturation voltage (lc=5mA,ls=0.25mA)			0.3	V



Digital Transistors(NPN)



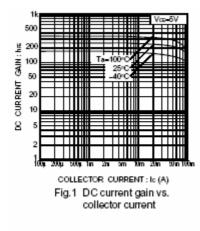
	DIME14310143						
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.110	.120	2.80	3.04			
В	.083	.098	2.10	2.64			
С	.047	.055	1.20	1.40			
D	.035	.041	.89	1.03			
Е	.070	.081	1.78	2.05			
F	.018	.024	.45	.60			
G	.0005	.0039	.013	.100			
Н	.035	.044	.89	1.12			
J	.003	.007	.085	.180			
K	.015	.020	.37	.51			



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Typical Characteristics



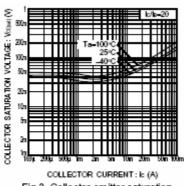


Fig.2 Collector-emitter saturation voltage vs. collector current



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Ordering Information:

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

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