

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DTC143ZCA

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epitaxial Planar Die Construction
- Complementary NPN Types Available
- **Built-In Biasing Resistors**
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: E23

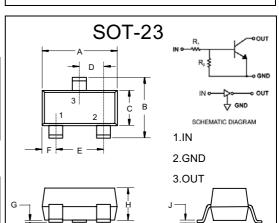
Absolute maximum ratings @ 25^{\circ}

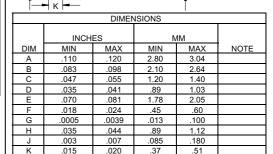
Symbol	Parameter	Min	Тур	Max	Unit
Ic	Collector current		100		mA
V _{IN}	Input voltage	-5		+30	V
P_d	Power dissipation	-	200		mW
T_{j}	Junction temperature		150		\mathbb{C}
T _{stg}	Storage temperature	-55	1	150	$^{\circ}$

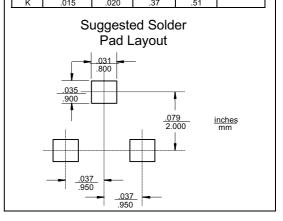
Electrical Characteristics @ 25°℃

Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =5V, I _O =100 μ A)		-	1.3	V
$V_{I(on)}$	$(V_0=0.3V, I_0=5mA)$	0.5			V
$V_{O(on)}$	Output voltage (I _O =5mA,I _i =0.25mA)			0.3	V
I _I	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)	80			
R ₁	Input resistance	3.29	4.7	6.11	$K\Omega$
R_2/R_1	Resistance ratio	8	10	12	
f _T	Transition frequency $(V_{CE}=10V, I_{E}=5mA, f=100MHz)$		250		MHz

Digital Transistors









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Ordering Information:

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

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