



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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DTC114YCA

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: 64

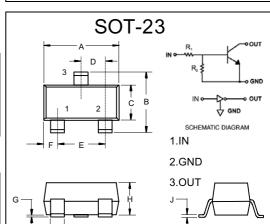
Absolute maximum ratings @ 25°

Symbol	Parameter	Min	Тур	Max	Unit
Ic	Collector current		100		mA
V_{IN}	Input voltage	-6		+40	V
P_d	Power dissipation		200		mW
T_j	Junction temperature		150		$^{\circ}$
T _{stq}	Storage temperature	-55		150	$^{\circ}$

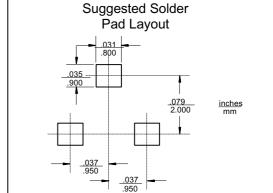
Electrical Characteristics @ 25°C

Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =5V, I _O =100 μ A)			0.3	V
$V_{I(on)}$	(V ₀ =0.3V, I ₀ =1mA)	1.4			V
$V_{O(on)}$	Output voltage (I _O =5mA,I _i =0.25mA)			0.3	V
I_{l}	Input current (V _I =5V)			0.88	mA
$I_{O(off)}$	Output current (V _{CC} =50V, V _I =0)			0.5	μA
Gı	DC current gain (V ₀ =5V, I ₀ =5mA)	68			
R ₁	Input resistance	7	10	13	$\mathbf{K}\Omega$
R_2/R_1	Resistance ratio	3.7	4.7	5.7	
f⊤	Transition frequency $(V_{CE}=10V, I_{E}=5mA, f=100MHz)$		250		MHz

Digital Transistors



DIMENSIONS						
	INCH	ES	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		
E	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Η	.035	.044	.89	1.12		
٦	.003	.007	.085	.180		
К	015	020	37	51		





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Ordering Information:

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

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