



Micro Commercial Components

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DTC113ZUA

Features

- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking: E21

Absolute maximum ratings @ 25°C

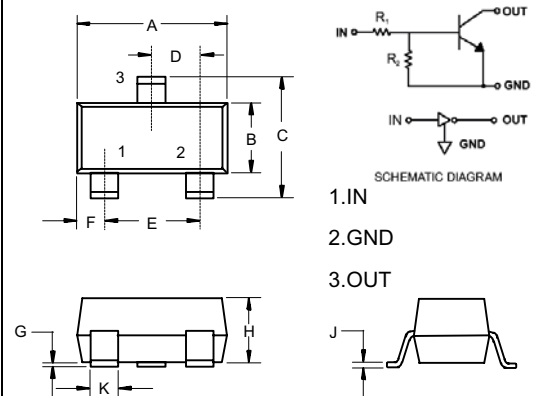
Symbol	Parameter	Min	Typ	Max	Unit
I_C	Collector current	---	100	---	mA
V_{IN}	Input voltage	-5	---	+10	V
P_d	Power dissipation	---	200	---	mW
T_j	Junction temperature	---	150	---	°C
T_{stg}	Storage temperature	-55	---	150	°C

Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Typ	Max	Unit
$V_{I(off)}$	Input voltage ($V_{CC}=5V, I_o=100 \mu A$)	---	---	0.3	V
$V_{I(on)}$	Input voltage ($V_o=0.3V, I_o=20mA$)	3.0	---	---	V
$V_{O(on)}$	Output voltage ($I_o=10mA, I_i=0.5mA$)	---	---	0.3	V
I_i	Input current ($V_i=5V$)	---	---	7.2	mA
$I_{o(off)}$	Output current ($V_{CC}=50V, V_i=0$)	---	---	0.5	μA
G_1	DC current gain ($V_o=5V, I_o=5mA$)	33	---	---	
R_1	Input resistance	0.7	1.0	1.3	K Ω
R_2/R_1	Resistance ratio	8	10	12	
f_T	Transition frequency ($V_{CE}=10V, I_E=5mA, f=100MHz$)	---	250	---	MHz

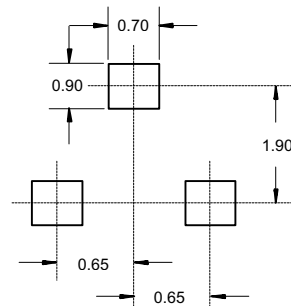
Digital Transistors

SOT-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65 Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

Suggested Solder Pad Layout





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Ordering Information

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

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