

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- Two 2SA1037AK chips in a package
- Mounting possible with SOT-363 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Mechanical Data

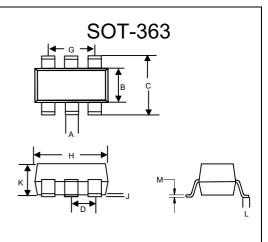
- Case: SOT-363, Molded Plastic
- Polarity: See Diagram

Maximum Ratings @ 25 $^\circ C$ Unless Otherwise Specified

Symbol	Parameter	Value	Units		
OFF CHARA	OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	n Voltage -50			
V _{(BR)CBO}	Collector-Base Breakdown Voltage	-60	Vdc		
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage	-6.0	Vdc		
lc	Collector Current	-150	mAdc		
P _d	Power Dissipation	150	mW		
T _J , T _{STG}	Operating & Storage Temperature	-55~+150	°C		

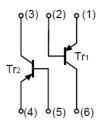
UMT1N

Dual Transistors



DIMENSIONS					
	INCH	HES MM			
DIM	MIN	MAX	MIN	MAX	NOTE
А	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.02	6	0.65N	ominal	
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
J		.004		0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
М	.003	.006	0.08	0.15	

MARKING:T1



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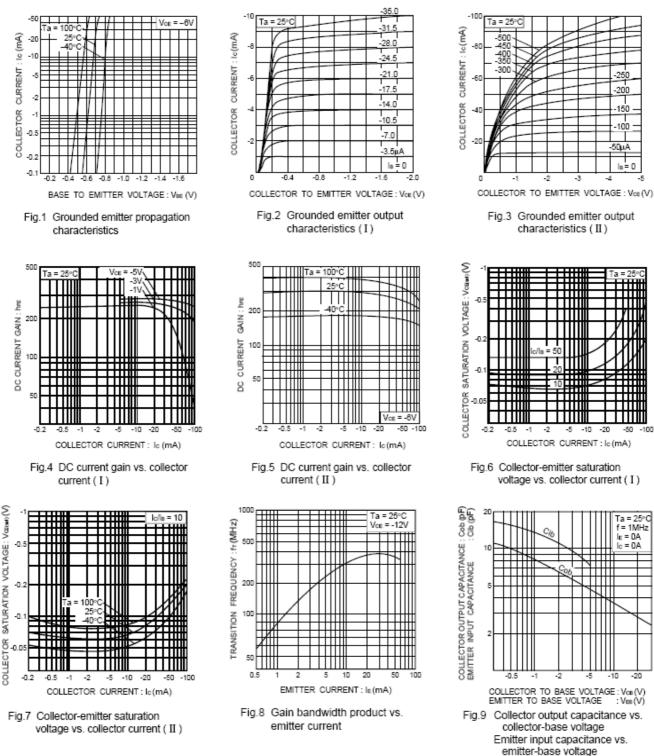
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	Ι _C =-50μΑ,Ι _E =0	-60			V
Collector-emitter breakdown Voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	Ι _Ε =-50μΑ,Ι _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V,I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V,I _C =-1mA	120		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50mA,I _B =-5mA			-0.5	V
Transition frequency	f⊤	V _{CE} =-12V,I _E =2mA, f=100MHz		140		MHz
Output capacitance	Cob	V _{CB} =-12V,I _E =0, f=1MHz			5	рF

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Typical Characteristics



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Revision: B

2013/01/01

 $\cdot M \cdot C \cdot C \cdot$

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-200

150

-100

50µA

-4

la = 0

т

-20 -50 -100

Ta = 25°C

f = 1MH le = 0A

 $l_0 = 0A$



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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