



Micro Commercial Components



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**2SA1037-Q
2SA1037-R
2SA1037-S**

Features

- Small Package
- Mounting: any position
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ T_a = 25°C (unless otherwise noted)

Symbol	Parameter	Value	Unit
I _C	Collector Current	-0.15	A
P _D	Total Device Dissipation	0.2	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1mA _{dc} , I _E =0)	-50		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-50μA _{dc} , I _E =0)	-60		V
V _{(BR)EBO}	Collector-Base Breakdown Voltage (I _E =-50μA _{dc} , I _C =0)	-6.0		V
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =-60V _{dc} , I _E =0)		-0.1	μA _{dc}
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =-6.0V _{dc} , I _C =0)		-0.1	μA _{dc}

ON CHARACTERISTICS

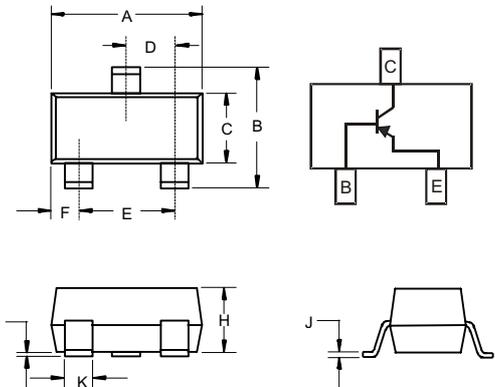
H _{FE}	DC Current Gain (I _C =-1.0mA _{dc} , V _{CE} =-6.0V _{dc})	120	560	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-5.0mA _{dc} , I _B =-5.0mA _{dc})		-0.5	V _{dc}
F _T	Transition Frequency (V _{CE} =-12V _{dc} , I _C =-2mA _{dc} , f=30MHZ)	120		MHZ

CLASSIFICATION OF h_{FE}

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS

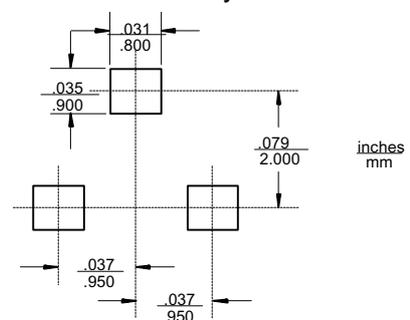
PNP Silicon Epitaxial Transistors

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.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	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





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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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