



Micro Commercial Components



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2SA1162-O
2SA1162-Y
2SA1162-GR

Features

- Capable of 0.15Watts of Power Dissipation.
- Collector-current: 0.15A
- Collector-base Voltage: -50V
- Operating and storage junction temperature range: -55°C to +150°C
- 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)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C = -1\text{mA}$, $I_B = 0$)	-50	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -100\mu\text{A}$, $I_E = 0$)	-50	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E = -100\mu\text{A}$, $I_C = 0$)	-5	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = -50\text{Vdc}$, $I_E = 0$)	---	-0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -5.0\text{Vdc}$, $I_C = 0$)	---	-0.1	μA

ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C = -2.0\text{mA}$, $V_{CE} = -6.0\text{Vdc}$)	70	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -100\text{mA}$, $I_B = -10\text{mA}$)	---	-0.3	Vdc

SMALL-SIGNAL CHARACTERISTICS

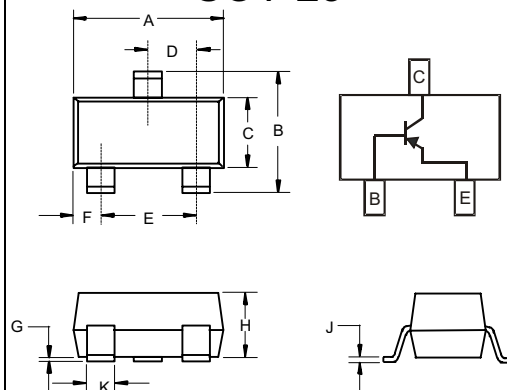
f_T	Transistor Frequency ($I_C = -1.0\text{mA}$, $V_{CE} = -10\text{Vdc}$)	80	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB} = -10\text{Vdc}$, $I_E = 0$, $f = 1\text{MHz}$)	---	7	pF
NF	Noise Figure ($V_{CE} = -6\text{Vdc}$, $I_C = 0.1\text{mA}$, $f = 1\text{KHz}$, $R_g = 10\text{K}\Omega$)	---	10	dB

CLASSIFICATION OF h_{FE}

Rank	O	Y	GR
Range	70-140	120-240	200-400
Marking	SO	SY	SG

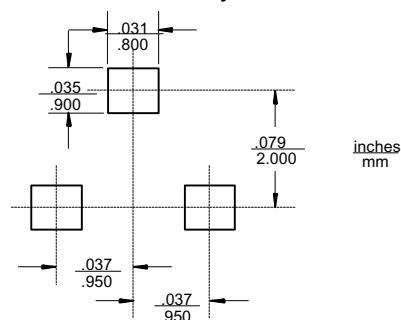
PNP Silicon Plastic-Encapsulate Transistor

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	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



Ordering Information :

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

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