



Micro Commercial Components

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2SA1013-R 2SA1013-0 2SA1013-Y

Features

- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information) Capable of 0.9Watts of Power Dissipation.
- Collector-current -1.0A
- Collector-base Voltage -160V
- Operating and storage junction temperature range: -55 $^{\circ}$ C to +150 $^{\circ}$ C Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1.0mAdc, I _B =0)		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-100µAdc, I _E =0)	-160		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-10mAdc, I _C =0)	-6.0		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =-150Vdc, I _E =0)		-1.0	μAdc
I _{CEO}	Collector Cutoff Current (V _{CB} =-120Vdc, I _E =0)		-10	μAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-6.0Vdc, I _C =0)		-1.0	μAdc

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain	65	310	
	$(I_C=-200 \text{mAdc}, V_{CE}=-5.0 \text{Vdc})$			
h _{FE(2)}	DC Current Gain	40		
	$(I_C=-50\text{mAdc}, V_{CE}=-5.0\text{Vdc})$			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-500mAdc, I _B =-50mAdc)		-1.5	Vdc
V_{BE}	Base-Emitter Saturation Voltage		-0.75	Vdc

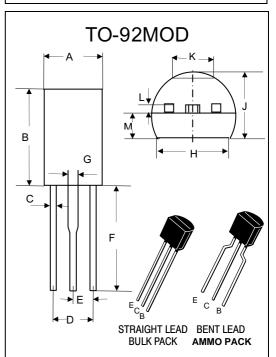
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency	-15	 MHz
	$(I_C=-200 \text{mAdc}, V_{CE}=-5.0 \text{Vdc},$		
	f=30MHz)		

CLASSIFICATION OF HEE(1)

Rank	R	0	Y
Range	60-120	120-200	200-300

PNP Epitaxial Silicon Transistor



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.228	.244	5.80	6.20	
В	.331	.346	8.40	8.80	
С	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
D	.173	.220	4.40	5.60	Bent Lead
Е	.05	59	1	.50	Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
Н	.157		4.00		
J	.185	.201	4.70	5.10	
K		.063		1.60	
L	.016	.020	0.40	0.50	
M	.068	.080	1.73	2.03	

For ammo packing detailed specification, click here to visit our website of product packaging for details.



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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 50Kpcs/Carton

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

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