



**Micro Commercial Components** 

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# 2SA1048-Y 2SA1048-GR

## Features

- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Power dissipation:  $P_{CM} = 0.2W$
- Collector current: I<sub>C</sub> = 0.15A
- Thermal Resistance From Junction To Ambient: 625°C/W
- Operating and storage junction temperature range

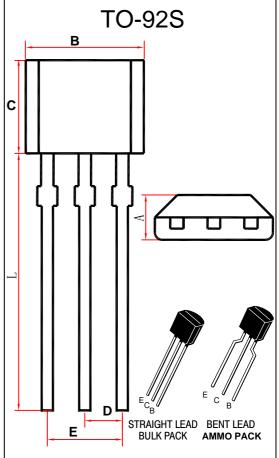
# T<sub>J</sub>, T<sub>stg</sub>: -55 $^{\circ}$ C to + 150 $^{\circ}$ C • Halogen free available upon request by adding suffix "-HF" **Electrical Characteristics @ 25 ^{\circ}C Unless Otherwise Specified**

Symbol	Parameter	Min	Тур	Max	Unit
$V_{CEO}$	Collector-Emitter Voltage (I <sub>C</sub> =-1mA,I <sub>B</sub> =0)	-50		1	V
$V_{CBO}$	Collector-Base Voltage (I <sub>C</sub> =-0.1mA, I <sub>E</sub> =0)	-50			V
V <sub>EBO</sub>	Emitter-Base Voltage (I <sub>E</sub> =-0.1mA, I <sub>C</sub> =0)	-5.0			٧
I <sub>CBO</sub>	Collector cut-off Current (V <sub>CB</sub> =-50V, I <sub>E</sub> =0)			-0.1	μА
I <sub>EBO</sub>	Emitter cut-off Current (V <sub>EB</sub> =-5V, I <sub>C</sub> =0)			-0.1	μА
h <sub>FE</sub>	DC current gain (V <sub>CE</sub> =-6V, I <sub>C</sub> =-2mA)	120		400	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA)			-0.3	V
$C_{ob}$	Collector output capacitance (V <sub>CB</sub> =-10Vdc, I <sub>E</sub> =0,f=1MHz)			7.0	pF
f⊤	Transition Frequency (V <sub>CE</sub> =-10Vdc, I <sub>C</sub> =-1.0mAdc)	80			MHz

## **CLASSIFICATION OF h**<sub>FE</sub>

Rank	Υ	GR	
Range	120-240	200-400	

## **PNP Plastic-Encapsulate Transistors**



	DIMENSIONS						
	INC	HES	ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.056	.064	1.42	1.62			
В	.154	.161	3.90	4.10			
С	.120	.128	3.05	3.25			
D	.050		1.27		Straight Lead		
_ D	.086	.110	2.20	2.80	Bent Lead		
_	.096	.104	2.44	2.64	Straight Lead		
E	.173	.220	4.40	5.60	Bent Lead		
L	.594	.610	15.10	15.50			

<sup>\*</sup> 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: 30Kpcs/Carton	
Part Number-BP	Bulk: 100 Kpcs/Carton	

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

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