



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: $I_C = 0.15A$
- Thermal Resistance From Junction To Ambient: $625^{\circ}C/W$
- Operating and storage junction temperature range
 $T_J, T_{stg} : -55^{\circ}C \text{ to } +150^{\circ}C$
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

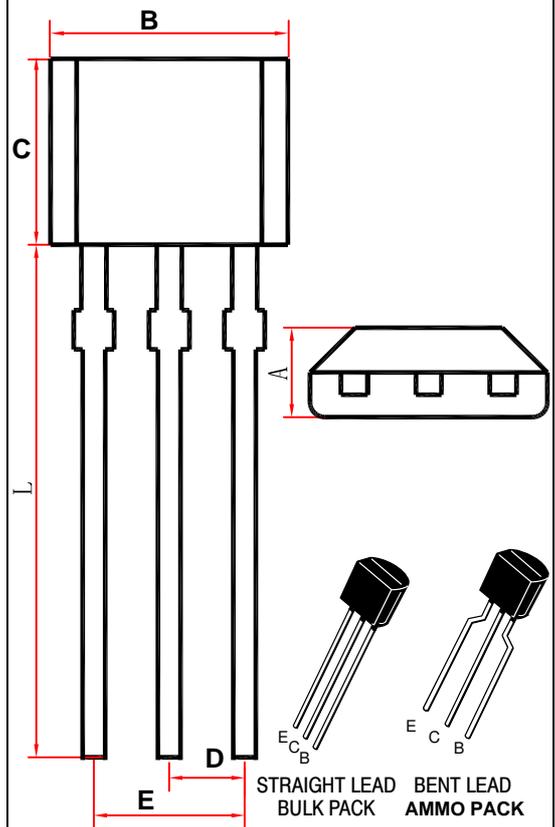
Symbol	Parameter	Min	Typ	Max	Unit
V_{CEO}	Collector-Emitter Voltage ($I_C = -1mA, I_B = 0$)	-50	---	---	V
V_{CBO}	Collector-Base Voltage ($I_C = -0.1mA, I_E = 0$)	-50	---	---	V
V_{EBO}	Emitter-Base Voltage ($I_E = -0.1mA, I_C = 0$)	-5.0	---	---	V
I_{CBO}	Collector cut-off Current ($V_{CB} = -50V, I_E = 0$)	---	---	-0.1	μA
I_{EBO}	Emitter cut-off Current ($V_{EB} = -5V, I_C = 0$)	---	---	-0.1	μA
h_{FE}	DC current gain ($V_{CE} = -6V, I_C = -2mA$)	120	---	400	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -100mA, I_B = -10mA$)	---	---	-0.3	V
C_{ob}	Collector output capacitance ($V_{CB} = -10Vdc, I_E = 0, f = 1MHz$)	---	---	7.0	pF
f_T	Transition Frequency ($V_{CE} = -10Vdc, I_C = -1.0mA_{dc}$)	80	---	---	MHz

CLASSIFICATION OF h_{FE}

Rank	Y	GR
Range	120-240	200-400

PNP Plastic-Encapsulate Transistors

TO-92S



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.056	.064	1.42	1.62	
B	.154	.161	3.90	4.10	
C	.120	.128	3.05	3.25	
D	.050		1.27		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
E	.096	.104	2.44	2.64	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
L	.594	.610	15.10	15.50	

* 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: 100Kpcs/Carton

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

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