

Pb

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SA1020L-O 2SA1020L-Y

Features

- Halogen free available upon request by adding suffix "-HF"
- Collector of 0.9Watts of Power Dissipation.
- Collector-current -2.0A
- 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)

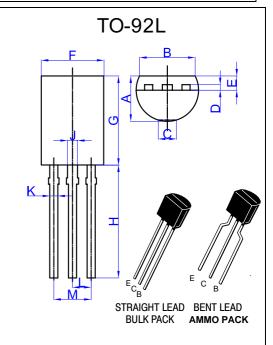
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Units	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-10mAdc, I _B =0)	-50	Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-100µAdc, I _E =0)	-50	Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-100mAdc, I _C =0)	-5.0	Vdc	
I _{CBO}	Collector Cutoff Current (V _{CB} =-50Vdc, I _E =0)	1.0		μAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5.0Vdc, I _C =0)	1.0		μAdc
h _{FE(1)}	DC Current Gain (I _C =-0.5Adc, V _{CE} =-2.0Vdc)	70 240		
h _{FE(2)}	DC Current Gain 40 $(I_C=-1.5Adc, V_{CE}=-2.0Vdc)$			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-1Adc, I _B =-50mAdc)	0.5		Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =-1.0Adc, I _B =-50mA)		-1.2	Vdc
f⊤	Transistor Frequency (I _C =-500mAdc, V _{CE} =-2.0Vdc,)	100(Typ)		MHz
C _{ob}	Collector output capacitance (I _E =0, V _{CB} =-10Vdc,f=1MHz)	40(Typ)		pF
t _{on}	Turn-0n time $(I_{B1}=-I_{B2}=-0.05, V_{CC}=-30Vdc, I_{C}=-1Adc)$	0.1(Typ)		μs
ts	Storage time (I_{B1} =- I_{B2} =-0.05, V_{CC} =-30 V dc, I_{C} =-1 A dc)	1.0(Typ)		μs
tf	Fall time $(I_{B1}=-I_{B2}=-0.05, V_{CC}=-30Vdc, I_{C}=-1Adc)$	0.1(Typ)		μs

CLASSIFICATION OF HFE (1)

Rank	0	Υ
Range	70-140	120-240

PNP Plastic-Encapsulate Transistor



DIMENSIONS							
	MM INCH		HES				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	3.700	4.100	.146	.161			
В	4.000		.157	-			
С	0.000	0.300	0.000	0.012			
D	0.350	0.450	.014	.018			
Е	1.280	1.580	.050	.062			
F	4.700	5.100	.185	.201			
G	7.800	8.200	.307	.323			
Н	13.80	14.20	.543	.559			
J	.600	.800	.024	.031			
K	0.350	.550	.014	.022			
L	1.270		.050		Straight Lead		
	2.200	2.800	.086	.110	Bent Lead		
М	2.440	2.640	.096	.104	Straight Lead		
	4.400	5.600	.173	.220	Bent Lead		

^{*} 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: 2Kpcs/Ammo Box	
Part Number-BP	Bulk: 50Kpcs/Carton	

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

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