



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SA1020-O 2SA1020-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)

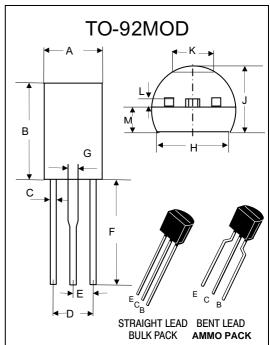
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	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 (I _C =-1.5Adc, V _{CE} =-2.0Vdc)	40		
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 _T	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							
	INCHES		MM				
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		
	.173	.220	4.40	5.60	Bent Lead		
Е	.059		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			
М	.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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