

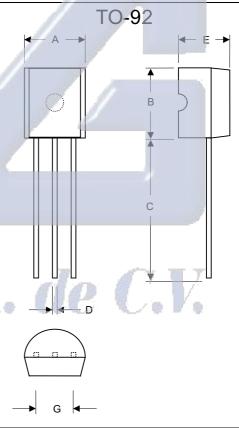
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 S9013-G S9013-H S9013-I

Features

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.625Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking Code: S9013
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

NPN Silicon Transistors



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
O	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Ш	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

Electrical Characteristics @ 25°C Unless Junerwise Specimen

Symbol	Parameter	IVIII	IVIax	Units
OFF CHARAC	CTERISTICS			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ((=100uAdc, I=0)	40		Vdc
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (L=0.1mAdc, I _B =0)	25		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (L=100uAdc, I _C =0)	5.0		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =40Vdc, ½=0)		0.1	uAdc
I _{CEO}	Collector Cutoff Current (V _{CE} =20Vdc, I _B =0)		0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, _C =0)	100	0.1	uAdc

ON CHARAC	TERISTICS			J 41.
h _{FE(1)}	DC Current Gain	64	400	
	(├=50mAdc, V _{CE} =1.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
	(l_c =500mAdc, V_{CE} =1.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.6	Vdc
	$(l_c=500 \text{mAdc}, l_B=50 \text{mAdc})$			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
, ,	(l_c =500mAdc, l_B =50mAdc)			

SMALL-SIGNAL CHARACTERISTICS

f_T Transistor Frequency 150 ---

(<u>b=20mAdc, V_{CE}=6.0V</u>dc, f=30MHz)

Base- Emitter Voltage

(L=100mAdc)

CLASSIFICATION OF HEED

 V_{EB}

Rank	G	Н]
Range	112-166	144-202	190-300

1.4

Vdc

MHz

Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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