

Micro Commercial Components



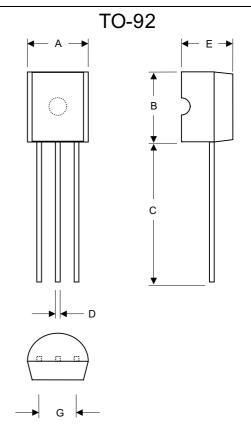
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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



		DIME	NSIONS		
	INCHI	ES	N	1M	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Е	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

Electrical Characteristics @ 25°C Unless Unierwise Specifical Characteristics @ 25°C Unless Unierwise Char

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OFF CHARAC	CTERISTICS			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (40		Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (L=0.1mAdc, L=0)	25		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (½=100uAdc, ½=0)	5.0		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =40Vdc, ξ =0)		0.1	uAdc
I _{CEO}	Collector Cutoff Current (V _{CE} =20Vdc, _b =0)		0.1	uAdc
Ево	Emitter Cutoff Current (V _{EB} =5.0Vdc,		0.1	uAdc
ON CHARACTERISTICS				

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h _{FE(1)}	DC Current Gain	64	400	
	(b=50mAdc, Vce=1.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
	(b=500mAdc, V _{CE} =1.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.6	Vdc
	(b=500mAdc, l _B =50mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
	(l _c =500mAdc, l _B =50mAdc)			
V _{EB}	Base- Emitter Voltage		1.4	Vdc
	(上=100mAdc)			

SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequency	150	 MHz
	(L=20mAdc, V _{CE} =6.0Vdc, f=30MHz)		

CLASSIFICATION OF HEE (1)

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

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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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