

Micro Commercial Components

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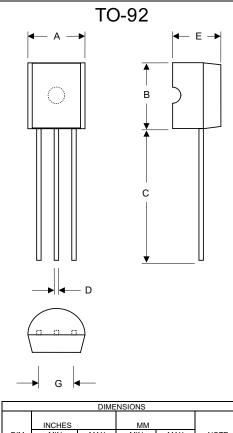
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S9013

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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

Electrical Characteristics @ 25°C Unless unerwise specimen

Symbol	Parameter	Min	Max	Units	
OFF CHARAC	OFF CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (b=100uAdc, l=0)	40		Vdc	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (½=0.1mAdc, ½=0)	25	I	Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (£=100uAdc, l _c =0)	5.0		Vdc	
Сво	Collector Cutoff Current (V _{CB} =40Vdc, ½=0)		0.1	uAdc	
I _{CEO}	Collector Cutoff Current (V _{CE} =20Vdc, ½=0)		0.1	uAdc	
l _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, ξ =0)		0.1	uAdc	

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain	64	400	
	(b=50mAdc, VcE=1.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
	(├=500mAdc, V _{CE} =1.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.6	Vdc
	(ξ =500mAdc, ξ =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
	(<u>E</u> =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

Revision: 5



Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

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