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**Micro Commercial Components** 

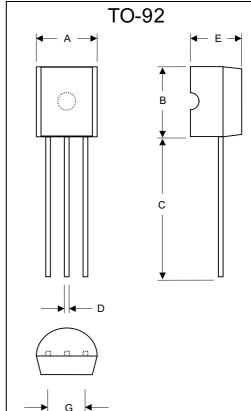
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 S9018-G S9018-H S9018-I

# **Features**

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.31Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.05A
- Collector-base Voltage 25V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: S9018
- 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		ММ		
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 Otherwise Specified Symbol Parameter Min Max Units

OFF CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	25		Vdc
	(l <sub>c</sub> =100uAdc, l <sub>∈</sub> =0)			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	18		Vdc
	(├=0.1mAdc, ├=0)			
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	4.0		Vdc
	( <u></u> =100uAdc, l <sub>c</sub> =0)			
Сво	Collector Cutoff Current		0.1	uAdc
	(V <sub>CB</sub> =20Vdc, <u></u>			
I <sub>CEO</sub>	Collector Cutoff Current		0.1	uAdc
	(V <sub>CE</sub> =15Vdc, <sub>b</sub> =0)			
I <sub>EBO</sub>	Emitter Cutoff Current		0.1	uAdc
	(V <sub>EB</sub> =3.0Vdc,			
ON QUADACTEDICTICS				

#### **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current Gain	28	270	
	(b=1.0mAdc, V <sub>cE</sub> =5.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.5	Vdc
	(b=10mAdc, b=1.0mAdc)			
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage		1.4	Vdc
	(l <sub>c</sub> =10mAdc, l <sub>g</sub> =1.0mAdc)			

#### **SMALL-SIGNAL CHARACTERISTICS**

f⊤	Transistor Frequency	600	 MHz
	( $\xi$ =5.0mAdc, $V_{CE}$ =5.0Vdc,		
	f=400MHz)		

## **CLASSIFICATION OF H FE**

Rank	G	Н	
Range	70-108	97-146	130-198

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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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