

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

NPN Silicon

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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Transistors



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CBO}	Collector-Base Breakdown Voltage (b=100uAdc, l=0)	25		Vdc
V _{(BR)CEO} Collector-Emitter Breakdown Voltage (I₂=0.1mAdc, I₃=0)		18		Vdc
V _{(BR)EBO} Emitter-Base Breakdown Voltage (£=100uAdc, l _c =0)		4.0		Vdc
Ісво	Collector Cutoff Current (V _{CB} =20Vdc, ξ =0)		0.1	uAdc
I_{CEO} Collector Cutoff Current $(V_{CE}=15Vdc, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			0.1	uAdc
І ЕВО	Emitter Cutoff Current (V _{EB} =3.0Vdc,		0.1	uAdc

ON CHARACTERISTICS

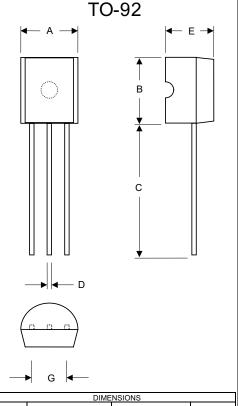
h _{FE}	DC Current Gain	28	270	
	(l _c =1.0mAdc, V _{CE} =5.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.5	Vdc
. ,	(l _c =10mAdc, l _B =1.0mAdc)			
V _{BE(sat)}	Base-Emitter Saturation Voltage		1.4	Vdc
(/	(L=10mAdc, L=1.0mAdc)			

SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency	600	 MHz
	($b=5.0$ mAdc, $V_{CE}=5.0$ Vdc,		
	f=400MHz)		

CLASSIFICATION OF H FE

Rank	G	H	I
Range	70-108	97-146	130-198



	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	
Е	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



Ordering Information

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

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