

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 S9012-G S9012-H S9012-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: S9012
- 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



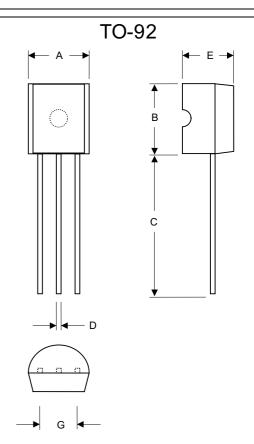
Electrical Characteristics @ 25°C Unless Otherwise Specified Symbol Parameter Min Max Unit

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OFF CHAR	ACTERISTICS			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	40		Vdc
, , , , ,	(l _c =100uAdc, l _∈ =0)			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	25		Vdc
	(l _c =0.1mAdc, l _B =0)			
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	5.0		Vdc
	$(l_E=100uAdc, l_C=0)$			
I _{CBO}	Collector Cutoff Current		0.1	uAdc
	(V _{CB} =40Vdc, <u>L</u> =0)			
I _{CEO}	Collector Cutoff Current		0.2	uAdc
	(V _{CE} =20Vdc, I _B =0)			
I EBO	Emitter Cutoff Current		0.1	uAdc
	(V _{EB} =5.0Vdc, <i>\</i> c=0)			
ON CHARA	CTERISTICS			
h _{FE(1)}	DC Current Gain	64	400	
* * *	(b=1mAdc, V _{CE} =4.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
* * *	(L=500mAdc, V _{CE} =1.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.6	Vdc
	(l _c =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
	(E=100mAdc)			
SMALL-SIG	GNAL CHARACTERISTICS			
f _T	Transistor Frequency	150		MHz
	(b=20mAdc, V _{CE} =6.0Vdc, f=30MHz)			

CLASSIFICATION OF He (1)

Rank	G	Н	1
Range	112 -166	144 -202	190 -300

PNP 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			
Е	.130	.160	3.30	3.96			
G	.096	.104	2.44	2.64			

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Revision: A 2011/01/01



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Ordering Information:

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

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