

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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
- Halogen free available upon request by adding suffix "-HF"

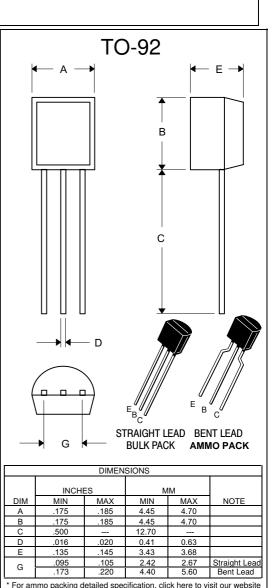
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units			
OFF CHARACTERISTICS							
V _{(BR)CBO}	Collector-Base Breakdown Voltage (┟=100µAdc, ┟=0)	40		Vdc			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (t=0.1mAdc, l _B =0)	25		Vdc			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (┟=100µAdc, ┟c=0)	5.0		Vdc			
I _{сво}	Collector Cutoff Current (V _{CB} =40Vdc, <u>k</u> =0)		0.1	µAdc			
ICEO	Collector Cutoff Current (V _{CE} =20Vdc, _b =0)		0.1	µAdc			
l _{ево}	Emitter Cutoff Current (V _{EB} =5.0Vdc,		0.1	µAdc			

ON CHARACTERISTICS						
h _{FE(1)}	DC Current Gain	DC Current Gain (৮=50mAdc, V _{CE} =1.0Vdc)		1	400	
h _{FE(2)}	DC Current Gain					
V _{CE(sat)}	Collector-Emitter Sat (L=500mAdc, I _B =5		-	0.6	Vdc	
V _{BE(sat)}	Base-Emitter Saturation Voltage (l _c =500mAdc, l _B =50mAdc)			-	1.2	Vdc
V _{EB}	Base- Emitter Voltage (te=100mAdc)				1.4	Vdc
SMALL-SIGNAL CHARACTERISTICS						
f _T	f _T Transistor Frequency (L=20mAdc, V _{CE} =6.0Vdc, f=3		15	0		MHz
CLASSIFI	CATION OF HEE (1)					
Rank	G	Н				
Range	112-166	144-202		190-300)

S9013-G S9013-H S9013-I

NPN Silicon Transistors



of product packaging for details

www.mccsemi.com



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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