



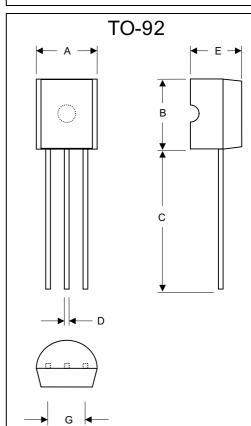
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 SS8050-C SS8050-D

## **Features**

- TO-92 Plastic-Encapsulate Transistors
- Capable of 1.0Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: SS8050
- 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	
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 Unit

Symbol	i aranietei	IAIIII	IVIAA	Ullita
OFF CHARACTERISTICS				
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (b=100uAdc, l=0)	40		Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (L=0.1mAdc, L=0)	25	1	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (=100uAdc, l <sub>c</sub> =0)	5.0		Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =40Vdc, ½=0)		0.1	uAdc
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CE</sub> =20Vdc, <sub>b</sub> =0)		0.1	uAdc
l <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5.0Vdc, $\xi$ =0)		0.1	uAdc

#### **ON CHARACTERISTICS**

h <sub>FE(1)</sub>	DC Current Gain	120	300	
	(b=100mAdc, V <sub>CE</sub> =1.0Vdc)			
h <sub>FE(2)</sub>	DC Current Gain	40		
	(l <sub>c</sub> =800mAdc, V <sub>CE</sub> =1.0Vdc)			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.5	Vdc
	( $\lfloor c = 800 \text{ mAdc}, \rfloor = 80 \text{ mAdc}$ )			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
	( $L_c$ =800mAdc, $L_c$ =80mAdc)			
V <sub>EB</sub>	Base- Emitter Voltage		1.6	Vdc
	( <u></u> =1.5Adc)			

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

f <sub>⊤</sub>	Transistor Frequency	190		MHz
	(b=50mAdc, Vce=10Vdc, f=30MHz)			

### **CLASSIFICATION OF H**etto

Rank	С	D	
Range	120-200	160-300	

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Revision: B 2012/01/20



#### **Micro Commercial Components**

## Ordering Information:

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

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