

**Micro Commercial Components** 



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### **Features**

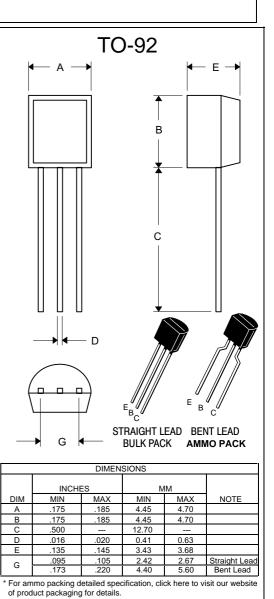
- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.625Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking : S8050
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Halogen free available upon request by adding suffix "-HF"

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol		Parameter		Min	Max	Units	
<b>OFF CHARA</b>	CTERIST	CS					
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (৮=100µAdc, ⊫=0)			40		Vdc	
V <sub>(BR)CEO</sub>	Collect	Collector-Emitter Breakdown Voltage $(c=0.1mAdc, b=0)$				Vdc	
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (L=100µAdc, L=0)			5.0		Vdc	
сво	Collector Cutoff Current (V <sub>CB</sub> =40Vdc, <u>L</u> =0)				0.1	µAdc	
Εο	Collect	Collector Cutoff Current (V <sub>CE</sub> =20Vdc, <u>b</u> =0)			0.1	µAdc	
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =3.0Vdc, L=0)				0.1	µAdc	
ON CHARAC	TERISTI	CS					
h <sub>FE(1)</sub>	DC Current Gain (t=50mAdc, V <sub>CE</sub> =1.0Vdc)		85	300			
h <sub>FE(2)</sub>	DC Cu	DC Current Gain (E=500mAdc, V <sub>CE</sub> =1.0Vdc)					
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage				0.6	Vdc	
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (t=500mAdc, t=50mAdc)				1.2	Vdc	
$V_{EB}$	Base- Emitter Voltage (I₌=100mAdc)			1.4	Vdc		
SMALL-SIG	VAL CHAI	RACTERISTICS					
f <sub>T</sub> Transistor Frequency (t <sub>c</sub> =20mAdc, V <sub>ce</sub> =6.0\			f=30MHz)	150		MHz	
CLASSIFICA	TION OF	HEE (1)					
Rank		В	(	-		D	
Range		85-150	120-200		160-300		

## S8050-B S8050-C S8050-D

## NPN Silicon Transistors



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### **Ordering Information :**

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

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

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