

Micro Commercial Components

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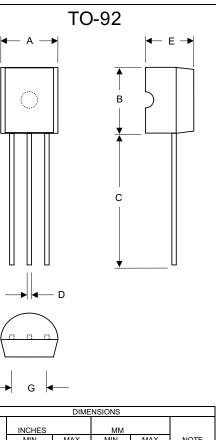
Features

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.625Watts(Tamb=25^oC) 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

Symbol	Parameter	Min	Max	Units	
FF CHARA	CTERISTICS				
V _{(BR)CBO}	Collector-Base Breakdown Volta	Breakdown Voltage 40		Vdc	
	(l _c =100uAdc, l _E =0)				
∕ _{(BR)CEO}	Collector-Emitter Breakdown Vol	age 25		Vdc	
	(l _c =0.1mAdc, l _B =0)				
∕ _{(BR)EBO}	Emitter-Base Breakdown Voltage	5.0		Vdc	
	(l _E =100uAdc, l _C =0)				
СВО	Collector Cutoff Current		0.1	uAdc	
	(V _{CB} =40Vdc, <u></u>				
6EO	Collector Cutoff Current		0.1	uAdc	
	(V _{CE} =20Vdc, <u>b</u> =0)		0.1		
BO	Emitter Cutoff Current		0.1	uAdc	
	(V _{EB} =3.0Vdc,				
N CHARAC	TERISTICS				
h _{FE(1)}	DC Current Gain		300		
	(b=50mAdc, V _{CE} =1.0Vdc)				
FE(2)	DC Current Gain	50			
	(L=500mAdc, V _{CE} =1.0Vdc)				
∕ _{CE(sat)}	Collector-Emitter Saturation Volta	ge	0.6	Vdc	
	(lc=500mAdc, l₀=50mAdc)				
∕ _{BE(sat)}	Base-Emitter Saturation Voltage		1.2	Vdc	
,	(L=500mAdc, L=50mAdc)				
ЕВ	Base- Emitter Voltage		1.4	Vdc	
	(I _E =100mAdc)				
	IALL-SIGNAL CHARACTERISTICS		1		
т	Transistor Frequency	150 MHz)		MHz	
	(L=20mAdc, V _{CE} =6.0Vdc, f=30	ivii i <i>∠)</i>			
	TION OF HEELD				
Rank	-	С		D	
Rang	e 85-150	120-200		160-300	

S8050-B S8050-C S8050-D

NPN Silicon Transistors



	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	

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Ordering Information

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

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