

Micro Commercial Components

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Features

- NPN Silicon Epitaxial Planar Transistor for switching and amplifier applications
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- As complementary type, the PNP transistor is MPSA56
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Mechanical Data

- Marking:MPSA06
- Weight: 0.18 grams (Approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

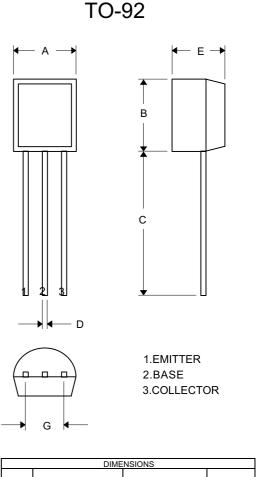
Characteristic	Symbol	Value	Unit
Collect to Base Voltage	V _{CBO}	80	V
Collect to Emitter Voltage	Vceo	80	V
Emitter to Base Voltage	V _{EBO}	4.0	V
Collect Current	lc	500	mA
Total Power Dissipation @ T _A =25°C	P _{tot}	625	mW
Total Power Dissipation @ Tc=25°C	Ptot	1.5	W
Thermal Resistance Junction to Ambient	$R_{ hetaJA}$	200	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T _{STG}	-55 to 150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.	
Collector Cut-off Current	Ісво		100	nA	V _{CB} =80V, I _E =0	
Collector to Emitter Saturatuion Voltage	V _{CE(sat)}		0.25	V	I _C =100mA, I _B =10mA	
DC Current Gain	h _{FE}	100 100			V _{CE} =1V, I _C =10mA V _{CE} =1V, I _C =100mA	
Gain Bandwidth Product	f⊤	100		MHz	V _{CE} =2V, I _C =20mA, f=100MHz	
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	80		V	I _C =1mA, I _B =0	
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	4		V	I _E =100 uA, I _C =0	
Base-Emitter ON Voltage	$V_{BE(ON)}$		1.2	V	I _C =10mA, I _B =1mA	



NPN Small Signal Transistor 625 mW



	DIMENSIONS				
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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	
ш	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

Note: Valid provided that leads are kept at ambient temperature.

www.mccsemi.com_



Ordering Information

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

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