

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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Features

- NPN Silicon Epitaxial Planar Transistor for switching and amplifier applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- As complementary type, the PNP transistor is MPSA56
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

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

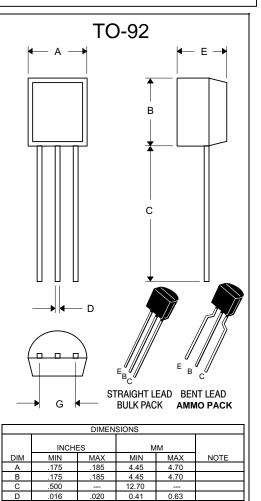
Charateristic	Symbol	Min	Max	Unit	Test Cond.
Collector Cut-off Current	Ісво		100	nA	$V_{CB}=80V, I_E=0$
Collector to Emitter Saturatuion Voltage	V _{CE(sat)}		0.25	V	I _C =100mA, I _B =10mA
DC Current Gain	h _{FE}	100 100			V _{CE} =1V, I _C =10mA V _{CE} =1V, I _C =100mA
Gain Bandwidth Product	f⊤	100		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

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

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MPSA06

NPN Small Signal Transistor 625 mW



0.41 .135 .145 3.43 3.68 .095 .173 .105 2 42 2 67 Straight Lead G 4.40 5.60 .220 Bent Lead * For ammo packing detailed specification, click here to visit our website of product packaging for details.

Revision: C



Ordering Information :

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

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