

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

MPSA06

Features

- Halogen free available upon request by adding suffix "-HF"
- 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

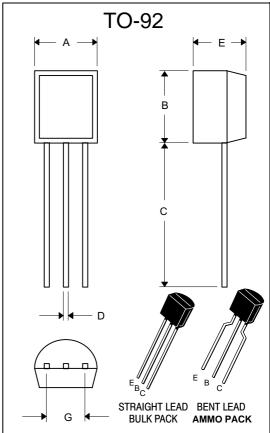
Characteristic	Symbol	Value	Unit
Collect to Base Voltage	V_{CBO}	80	٧
Collect to Emitter Voltage	Vceo	80	٧
Emitter to Base Voltage	V_{EBO}	4.0	V
Collect Current	lc	500	mA
Total Power Dissipation @ T _A =25°C	P_{tot}	625	mW
Total Power Dissipation @ Tc=25°C	Ptot	1.5	W
Thermal Resistance Junction to Ambient	$R_{ hetaJA}$	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	I _{CBO}		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	400		V_{CE} =1V, I_{C} =10mA V_{CE} =1V, I_{C} =100mA
Gain Bandwidth Product	f _T	100		MHz	V _{CE} =2V, I _C =10mA, f=100MHz
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	80		٧	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	4		٧	I _E =100μA, I _C =0
Base-Emitter ON Voltage	$V_{\text{BE}(\text{sat})}$		1.2	V	I _C =100mA, I _B =10mA

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

NPN Small Signal Transistor 625 mW

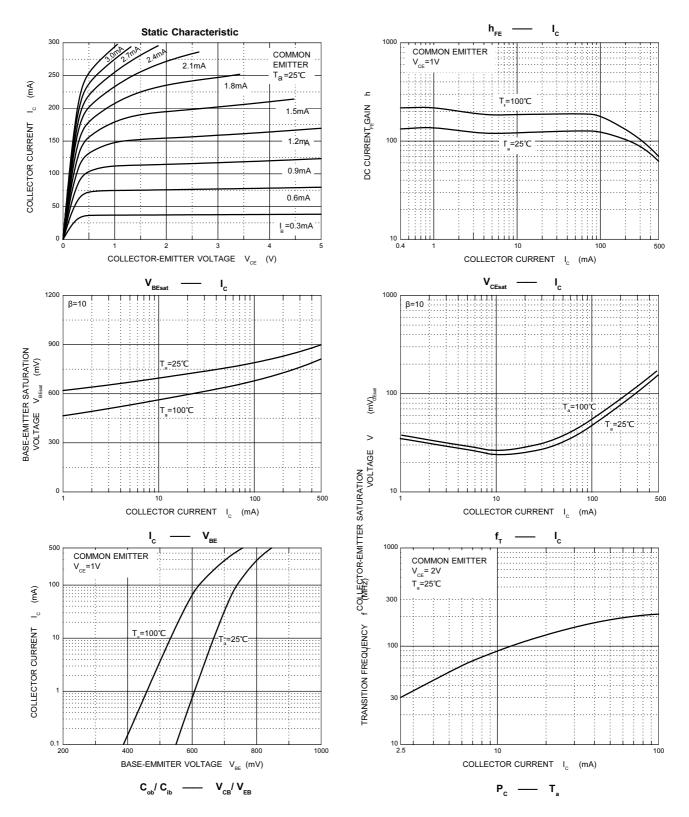


DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500		12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

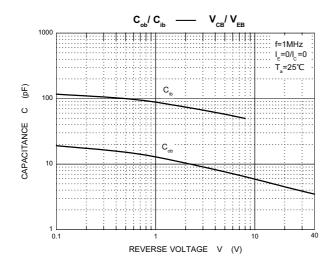


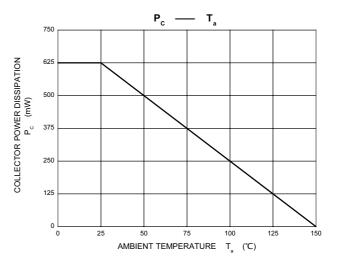
Typical Characterisitics





Typical Characterisitics







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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.