



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MPSA93

Features

- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- 150°C Junction Temperature
- Complementary to MPSA42/43
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:A93

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{CBO}	Collector-Base Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-500	mA
I_E	Emitter Current	500	mA
P_C	Collector Power Dissipation	625	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=1.0mA$, $I_B=0$)	-200	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100\mu A$, $I_C=0$)	-200	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-150Vdc$, $I_E=0$)	---	-0.25	μA dc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-3.0Vdc$, $I_C=0$)	---	-0.1	μA dc

OFF CHARACTERISTICS

h_{FE}	DC Current Gain ($V_{CE}=-10Vdc$, $I_C=-1.0mA$) ($V_{CE}=-10Vdc$, $I_C=-10mA$) ($V_{CE}=-10Vdc$, $I_C=-30mA$)	25 40 25	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-20mA$, $I_B=-2.0mA$)	---	-0.5	Vdc
$V_{BE(on)}$	Base-Emitter On Voltage ($I_C=-20mA$, $I_B=-2.0mA$)	---	-0.9	Vdc

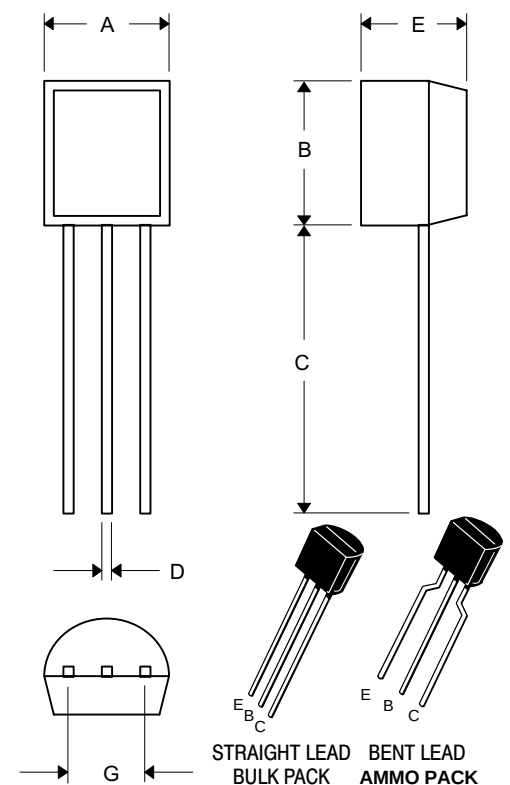
Small Signal Characteristics

f_T	Current Gain Bandwidth Product ($I_C=-10mA$, $V_{CE}=-20Vdc$, $f=100MHz$)	50	---	MHz
C_{ob}	Collector Output Capacitance ($I_E=0mA$, $V_{CB}=-20Vdc$, $f=1MHz$)		8.0	pF

* Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2.0\%$

Epitaxial Planar PNP Transistor

TO-92



STRAIGHT LEAD BULK PACK
BENT LEAD BULK PACK
AMMO PACK

DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

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

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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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.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9