

Micro Commercial Components



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

### Features

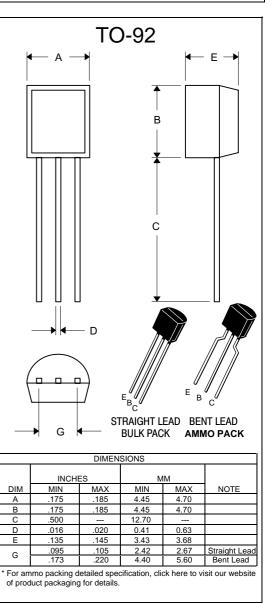
- Halogen free available upon request by adding suffix "-HF"
- Through Hole Package
- Operating & Storage Temperature: -55°C to +150°C
- Marking : A92
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
<b>OFF CHARA</b>	CTERISTICS			
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage* (I <sub>c</sub> =-1.0mAdc, I <sub>B</sub> =0)	-300		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>c</sub> =-100µAdc, I <sub>E</sub> =0)	-300		Vdc
V <sub>(BR)EBO</sub>	Emitter -Base Breakdown Voltage (I <sub>E</sub> =-10μAdc, I <sub>C</sub> =0)	-5.0		Vdc
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =-3.0Vdc, I <sub>C</sub> =0)		-0.25	uAdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-200Vdc, I <sub>E</sub> =0)		-0.25	uAdc
ON CHARA	CTERISTICS			
h <sub>FE</sub>	DC Current Gain* (I <sub>c</sub> =-1.0mAdc, V <sub>cE</sub> =-10Vdc) (I <sub>c</sub> =-10mAdc, V <sub>cE</sub> =-10Vdc) (I <sub>c</sub> =-50mAdc, V <sub>cE</sub> =-10Vdc)	25 80 25	250	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-20mAdc, I <sub>B</sub> =-2.0mAdc)		-0.5	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>C</sub> =-20mAdc, I <sub>B</sub> =-2.0mAdc)		-0.9	Vdc
SMALL-SIG	NAL CHARACTERISTICS			
f <sub>T</sub>	Current Gain-Bandwidth Product (I <sub>c</sub> =-10mAdc, V <sub>CE</sub> =-5Vdc, f=30MHz)	50		MHz
C <sub>cb</sub>	Collector-Base Capacitance (V <sub>CB</sub> =-20Vdc, I <sub>E</sub> =0, f=1.0MHz)		6.0	pF
*Pulse Widt	h  ≤ 300µs, Duty Cycle ≤ 2.0% <b>RATINGS</b>			
Symbol	Characteristic	MPS	A92	Unit
VCEO	Collector-Emitter Voltage	-300		Vdc
Vсво	Collector-Base Voltage	-300		Vdc
VEBO	Emitter-Base Voltage	-5.0		Vdc
IC	Collector Current — Continuous	-300		mAdc
R <sub>0JA</sub>	Thermal Resistance, Junction to Ambient	200		°C/W
R <sub>θ</sub> JC	Thermal Resistance, Junction to Case	83.3		°C/W
PD	Total Device Dissipation @ $T_A = 25^{\circ}C$	62	-	mW
-	Derate above 25°C Total Device Dissipation @ T <sub>C</sub> = 25°C	5.0 1.5		mW/°C Watts
PD	Derate above 25°C	1.: 12	-	mW/°C

## MPSA92

## PNP Silicon High Voltage Transistor

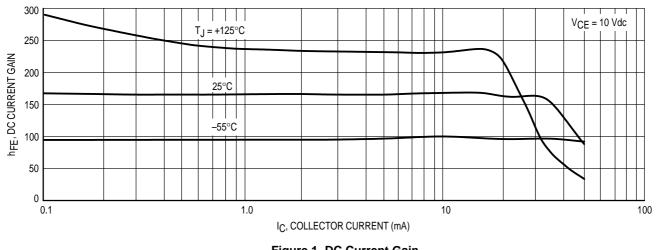


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### MPSA92



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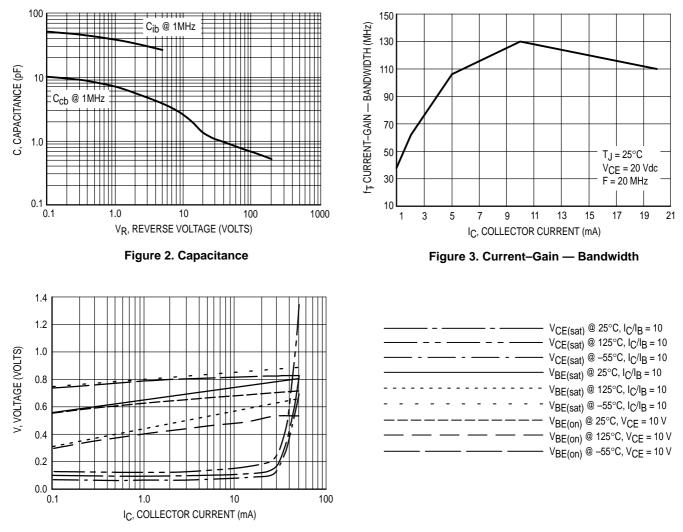


Figure 4. "ON" Voltages

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### **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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