

**Micro Commercial Components** 



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### Features

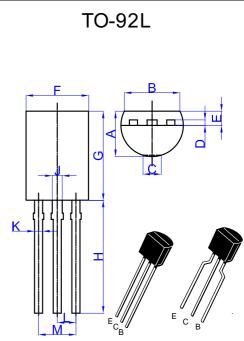
- Halogen free available upon request by adding suffix "-HF"
- High speed switching time
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

## **Maximum Ratings**

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Symbol	Rating	R	ating		Unit	
V <sub>CEO</sub>	Collector-Emitter Voltage		-50		V	
V <sub>CBO</sub>	Collector-Base Voltage	-50			V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5.0			V	
lc	Collector Current		-2		A	
Pc	Collector power dissipation		1		W	
TJ	Junction Temperature	-55 to +150			°C	
T <sub>STG</sub>	Storage Temperature	-55	-55 to +150		°C	
Electric	al Characteristics @ 25°C Unle	ss Oth	erwise	) Spec	ified	
Symbol	Parameter	Min	Тур	Max	Units	
<b>OFF CHAR</b>	ACTERISTICS					
$V_{(BR)CEO}$	Collector-emitter Breakdown Voltage $(I_{C}=-10 \text{ mAdc}, I_{B}=0)$	-50			Vdc	
V <sub>(BR)CBO</sub>	Collector-base Breakdown Voltage (I <sub>c</sub> =-100 µ Adc, I <sub>E</sub> =0)	-50			Vdc	
V <sub>(BR)EBO</sub>	Emitter-base Breakdown Voltage $(I_E=-100 \ \mu \ Adc, I_C=0)$	-5.0			Vdc	
I <sub>CBO</sub>	Collecto Cutoff Current (V <sub>CB</sub> =-50Vdc,I <sub>E</sub> =0)			-0.1	μ Adc	
I <sub>CEO</sub>	Collecto Cutoff Current (V <sub>CE</sub> =-40Vdc,I <sub>B</sub> =0)			-2.0	μ Adc	
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =-5.0Vdc, I <sub>C</sub> =0)		0.1		μ Adc	
ON CHARA	CTERISTICS					
h <sub>FE</sub>	DC Current gain (I <sub>C</sub> =-0.5Adc, V <sub>CE</sub> =-2Vdc) (I <sub>C</sub> =-1.5Adc, V <sub>CE</sub> =-2Vdc)	70 40		240		
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage $(I_{C}=-1Adc, I_{B}=-0.05Adc)$			-0.5	Vdc	
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage $(I_c=-1Adc, I_B=-0.05Adc)$			-1.2	Vdc	
f <sub>T</sub>	Transistor Frequency		100		MHz	

# KTA1281

# PNP Plastic-Encapsulate Transistors



STRAIGHT LEAD BENT LEAD BULK PACK AMMO PACK

	M	M	INC	INCHES	
DIM	MIN	MAX	MIN	MAX	NOTE
А	3.700	4.100	.146	.161	
В	4.000		.157		
С	0.000	0.300	0.000	0.012	
D	0.350	0.450	.014	.018	
Е	1.280	1.580	.050	.062	
F	4.700	5.100	.185	.201	
G	7.800	8.200	.307	.323	
Н	13.80	14.20	.543	.559	
J	.600	.800	.024	.031	
K	0.350	.550	.014	.022	
L	1.270		.050		Straight Lea
	2.200	2.800	.086	.110	Bent Lead
М	2.440	2.640	.096	.104	Straight Lea
	4.400	5.600	.173	.220	Bent Lead

# $(V_{CC}=-30V, I_{B1}=-I_{B2}=-0.05A, I_{C}=-1A)$ CLASSIFICATION OF Hretto

 $(V_{CE}=-2Vdc, I_{C}=-0.5mAdc)$ 

Collector Output Capacitance

Turn-on Time

Storage Time

Fall Time

(V<sub>CB</sub>=-10Vdc, I<sub>E</sub>=0, f=1.0MHz)

(V<sub>CC</sub>=-30V, I<sub>B1</sub>=-I<sub>B2</sub>=-0.05A, I<sub>C</sub>=-1A)

(V<sub>CC</sub>=-30V, I<sub>B1</sub>=-I<sub>B2</sub>=-0.05A, I<sub>C</sub>=-1A)

Rank	0	Y
Range	70-140	120-240

# www.mccsemi.com

pF

μs

μs

μs

40

0.1

1

0.1

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Cob

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tf



### **Ordering Information**

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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