

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 KTC3199-O KTC3199-Y KTC3199-GR KTC3199-BL

## **Features**

- High DC Current Gain: h<sub>FE</sub>=70~700
- Excellent h<sub>FE</sub> Linearity: h<sub>FE</sub>(0.1mA)/h<sub>FE</sub>(2.0mA)=0.95(Typ)
- Low Noise: NF=1.0dB(Typ.), 10dB(Max.)
- Complementary to KTA1267
- Marking: C3199
- 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**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	50	V
$V_{CBO}$	Collector-Base Voltage	50	V
$V_{EBO}$	Emitter-Base Voltage	5.0	V
Ι <sub>c</sub>	Collector Current	150	mA
lε	Emitter Current	150	Α
P <sub>C</sub>	Collector power dissipation	400	mW
TJ	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

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

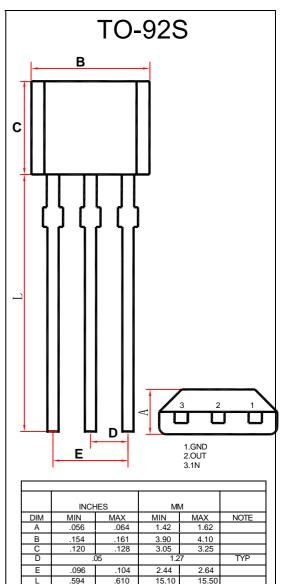
Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
Ісво	Collector-Base Cutoff Current (V <sub>CB</sub> =50Vdc, ½=0)			0.1	uAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current			0.1	uAdc
	$(V_{EB}=5.0Vdc, \xi=0)$				

## **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current gain <sup>(1)</sup>	70		700	
	(├=2.0mAdc, V <sub>CE</sub> =6.0Vdc)				
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.1	0.25	Vdc
. ,	(b=100mAdc, b=10mAdc)				
f <sub>T</sub>	Transistor Frequency	80			MHz
	(V <sub>CE</sub> =10Vdc,				
C <sub>ob</sub>	Collector Output Capacitance		2.0	3.5	pF
	(V <sub>CB</sub> =10Vdc,				
NF	Noise Figure				
	(V <sub>CE</sub> =6.0Vdc, b=0.1mAdc, f=1.0kHz,		1.0	10	dB
	Rg=10KOHM)				

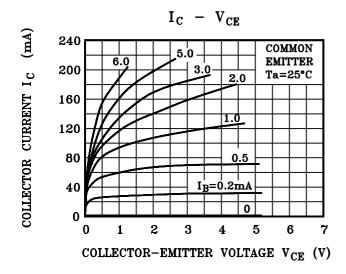
(1) h<sub>FE</sub>Classification O: 70~140, Y: 120~240, GR: 200~400, BL: 300~700

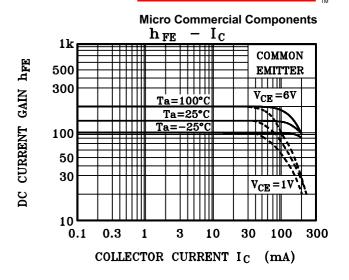
# NPN General Purpose Application

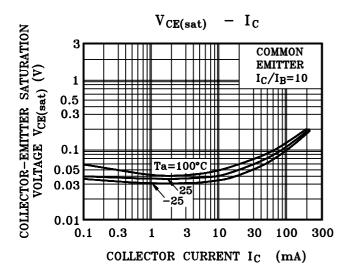


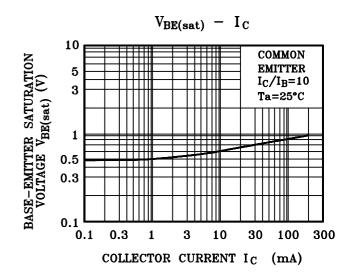
# KTC3199

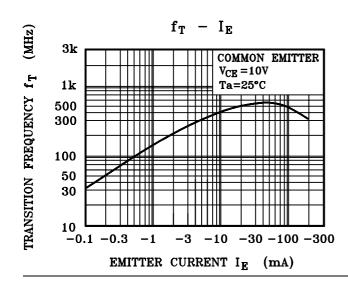


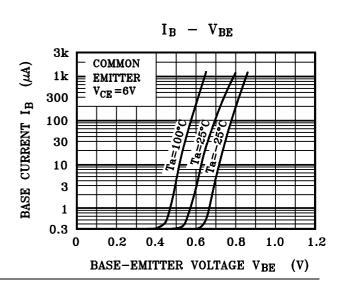




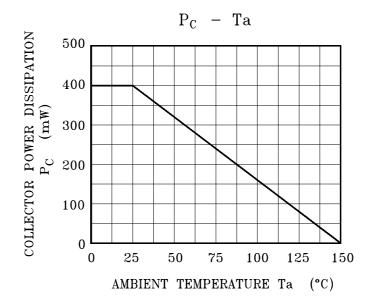














## **Ordering Information:**

Device	Packing
Part Number-AP	Ammo Packing: 30Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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