

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_{FE}=70~700
- Excellent h_{FE} Linearity: h_{FE}(0.1mA)/h_{FE}(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)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	50	٧
V_{EBO}	Emitter-Base Voltage	5.0	V
l _c	Collector Current	150	mA
Ι _Ε	Emitter Current	150	mA
P_{C}	Collector power dissipation	400	mW
Τ _J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

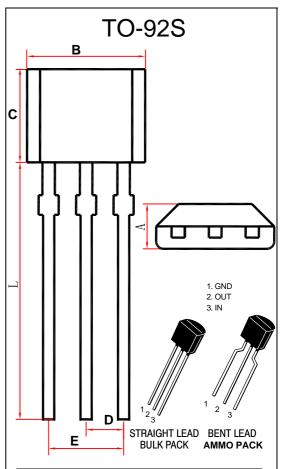
Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
I _{CBO}	Collector-Base Cutoff Current			0.1	uAdc
	(V _{CB} =50Vdc,				
I _{EBO}	Emitter-Base Cutoff Current			0.1	uAdc
	(V _{ER} =5.0Vdc, k=0)				

ON CHARACTERISTICS

h _{FE}	DC Current gain ⁽¹⁾	70		700	
	(b=2.0mAdc, V _{cE} =6.0Vdc)				
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.1	0.25	Vdc
	(l _c =100mAdc, l _s =10mAdc)				
f _T	Transistor Frequency	80			MHz
	(V _{CE} =10Vdc,				
C _{ob}	Collector Output Capacitance		2.0	3.5	pF
	(V _{CB} =10Vdc,				
NF	Noise Figure				
	(V _{CE} =6.0Vdc,		1.0	10	dB
	Rg=10KOHM)				

(1) h_{FE} Classification O: 70~140, Y: 120~240, GR: 200~400, BL: 300~700

NPN General Purpose Application

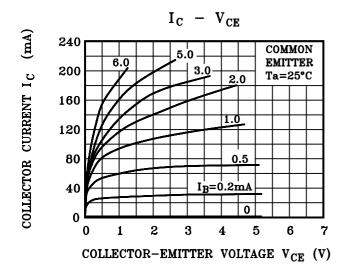


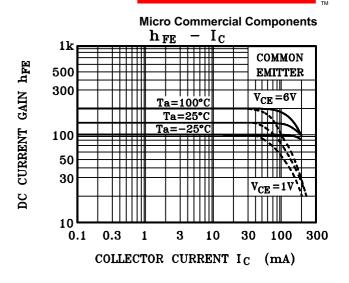
DIMENSIONS					
	INCHES MM		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.056	.064	1.42	1.62	
В	.154	.161	3.90	4.10	
С	.120	.128	3.05	3.25	
D	.050		1.27		Straight Lead
U	.086	.110	2.20	2.80	Bent Lead
_	.096	.104	2.44	2.64	Straight Lead
Е	.173	.220	4.40	5.60	Bent Lead
Ĺ	.594	.610	15.10	15.50	

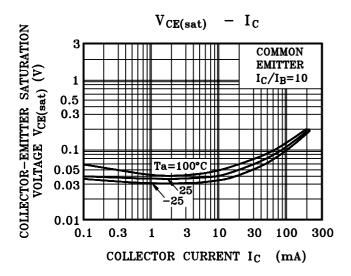
^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

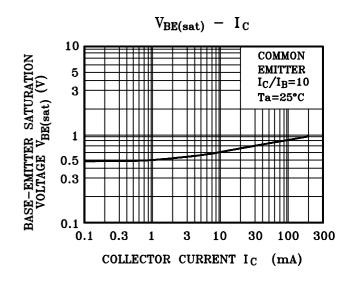
KTC3199

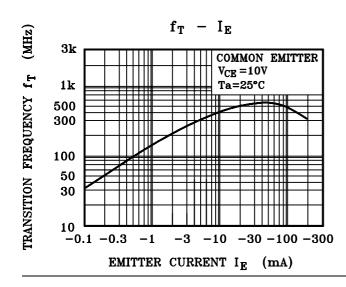


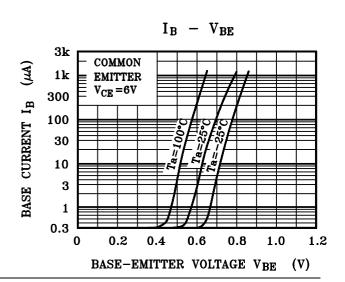




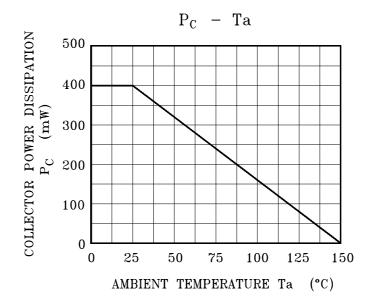














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Ordering Information:

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

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

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