



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: $h_{FE}=70\sim700$
- 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
- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 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
I_C	Collector Current	150	mA
I_E	Emitter Current	150	A
P_C	Collector power dissipation	400	mW
T_J	Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
--------	-----------	-----	-----	-----	-------

OFF CHARACTERISTICS

I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=50Vdc, I_E=0$)	---	---	0.1	μA_{dc}
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=5.0Vdc, I_C=0$)	---	---	0.1	μA_{dc}

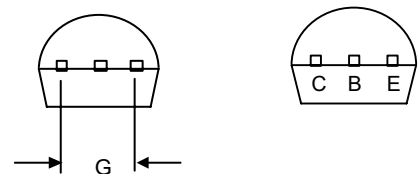
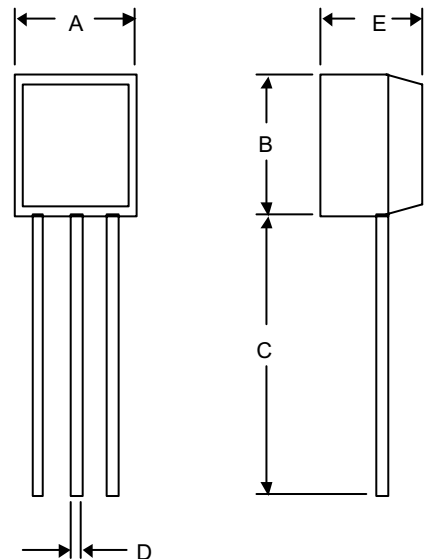
ON CHARACTERISTICS

h_{FE}	DC Current gain ⁽¹⁾ ($I_C=2.0mA_{dc}, V_{CE}=6.0Vdc$)	70	---	700	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=100mA_{dc}, I_E=10mA_{dc}$)	---	0.1	0.25	Vdc
f_T	Transistor Frequency ($V_{CE}=10Vdc, I_C=1.0mA_{dc}$)	80	---	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10Vdc, I_E=0, f=1.0MHz$)	---	2.0	3.5	pF
NF	Noise Figure ($V_{CE}=6.0Vdc, I_C=0.1mA_{dc}, f=1.0kHz, R_g=10KOHM$)	---	1.0	10	dB

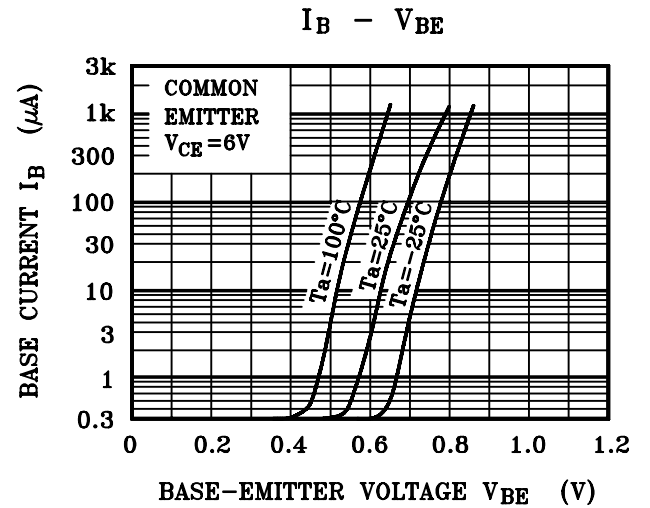
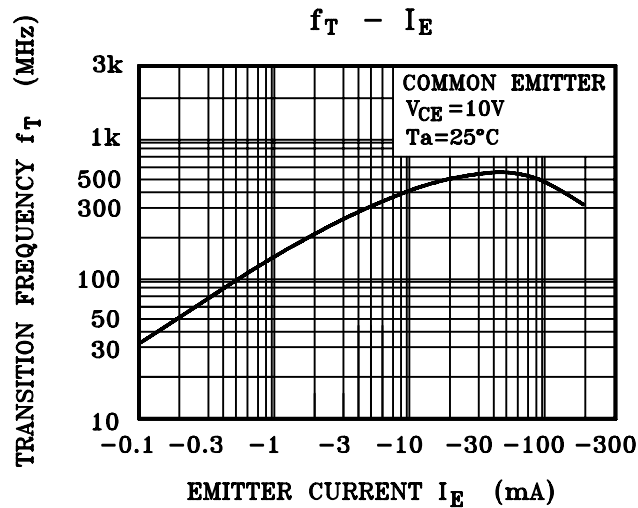
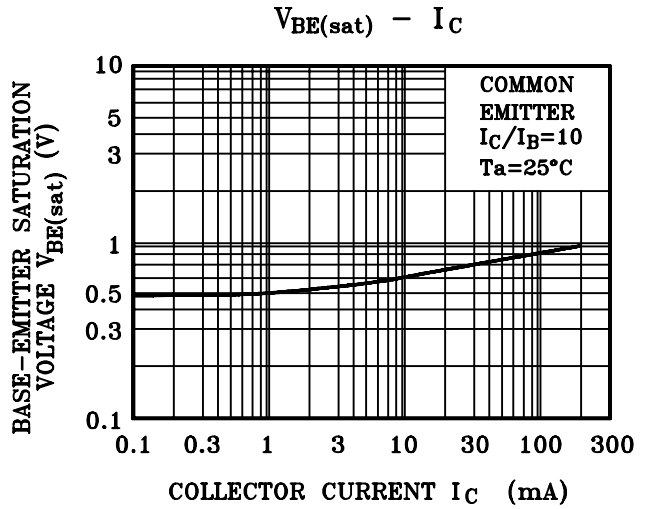
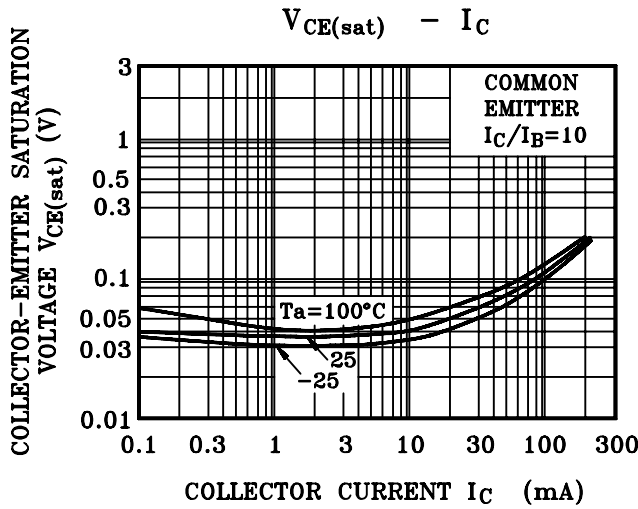
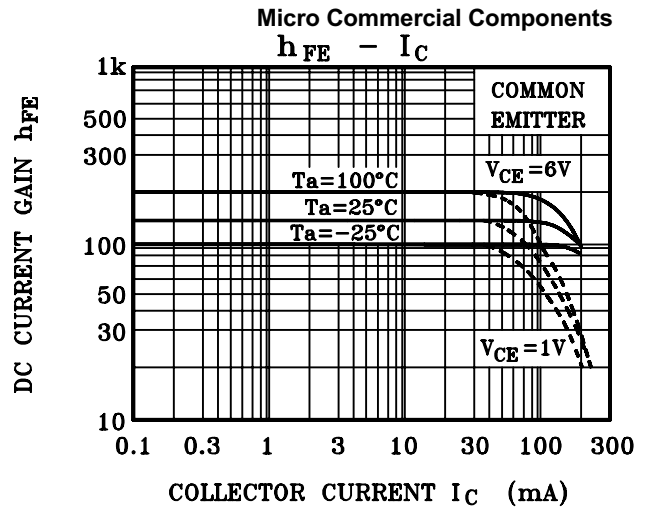
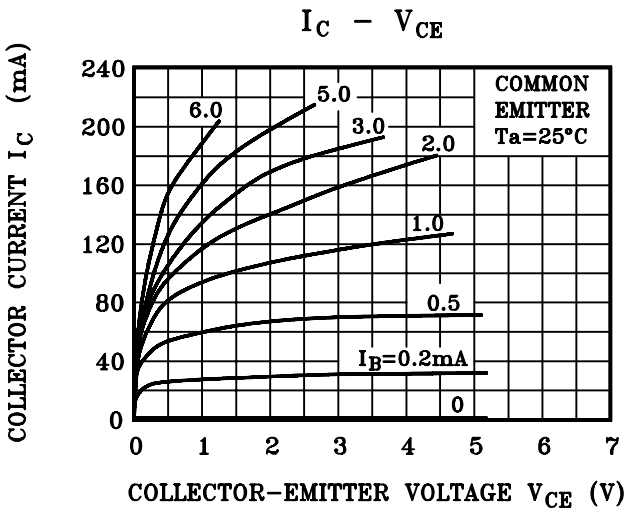
(1) h_{FE} Classification O: 70~140, Y: 120~240, GR: 200~400, BL: 300~700

NPN General Purpose Application

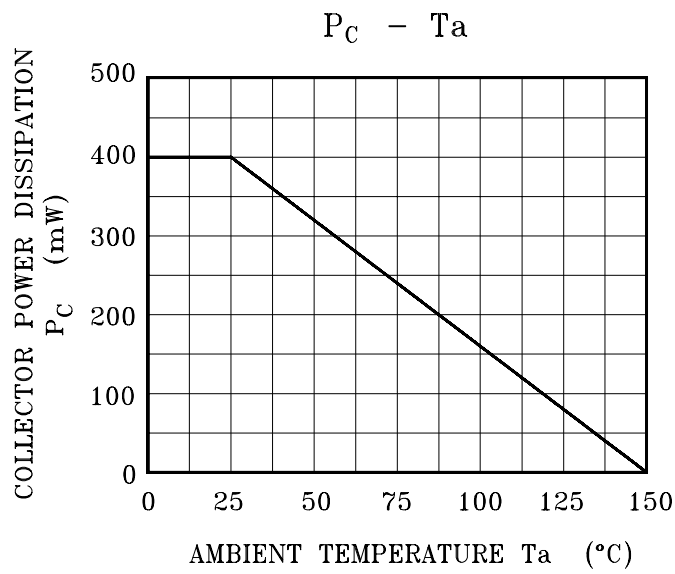
TO-92S



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.16		4.00		
B	.12		3.00		
C	.59	---	15.00	---	
D	.02		0.45		
E	.08		2.00		
G	.20		5.00		



KTC3199





Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-BP	Bulk;500pcs/Bag

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

*****APPLICATIONS DISCLAIMER*****

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.