



Micro Commercial Components



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KTC3205

NPN Plastic-Encapsulate Transistor

Features

- Power Dissipation: 1W ($T_{amb}=25^{\circ}C$)
- Collector Current: 2A
- Collector-base Voltage: 30V
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: C3205
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	30	V
V_{CBO}	Collector-Base Voltage	30	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	2	A
P_C	Collector Power Dissipation	1000	mW
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

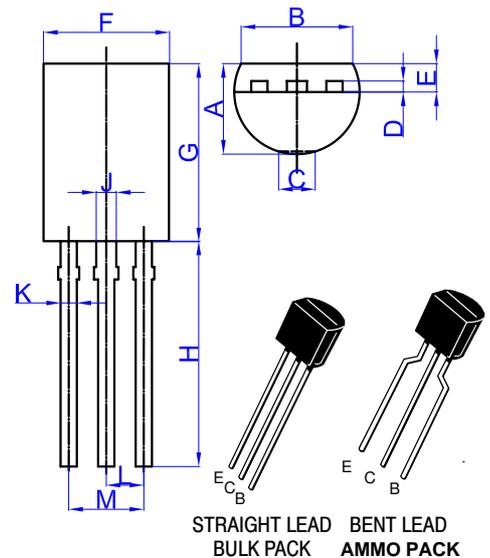
Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
I_{CBO}	Collector Cutoff Current ($V_{CB}=30Vdc, I_E=0$)	---	---	0.1	μA_{dc}
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0Vdc, I_C=0$)	---	---	0.1	μA_{dc}

ON CHARACTERISTICS

h_{FE-2}	DC Current gain ⁽¹⁾ ($I_C=500mA_{dc}, V_{CE}=2Vdc$)	100	---	320	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=1.5mA_{dc}, I_B=30mA_{dc}$)	---	---	2.0	Vdc
V_{BE}	Base- Emitter Voltage ($I_C=500mA_{dc}, V_{CE}=2Vdc$)	---	---	1.0	Vdc
f_T	Transistor Frequency ($I_C=500mA_{dc}, V_{CE}=2Vdc$)	---	120	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10Vdc, I_E=0, f=1.0MHz$)	---	13	---	pF

(1) h_{FE} Classification O: 100~200, Y: 160~320

TO-92L



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

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



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Ordering Information :

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

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