



KTC4373

NPN Plastic-Encapsulate Transistors

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low noise
- Excellent h_{FE} linearity
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	120	V
V_{CBO}	Collector-Base Voltage	120	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.8	A
P_C	Collector power dissipation	0.5	W
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

I_{CBO}	Collector Cutoff Current ($V_{CB} = 120Vdc$)	---	---	100	nAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB} = 5.0Vdc$)	---	---	100	nAdc

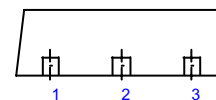
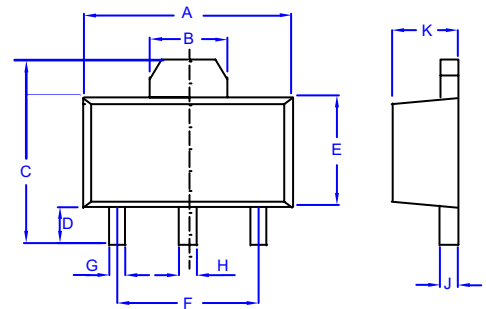
ON CHARACTERISTICS

BV_{CBO}	Collector-base breakdown voltage ($I_C = 1mA_{dc}$)	120	---	---	Vdc
BV_{CEO}	Collector-emitter breakdown voltage ($I_C = 10mA_{dc}$)	120	---	---	Vdc
BV_{EBO}	Emitter-base breakdown voltage ($I_E = 1mA_{dc}$)	5	---	---	Vdc
h_{FE}	DC Current Gain ($I_C = 0.1A_{dc}$, $V_{CE} = 5.0Vdc$)	80	---	240	---
$V_{CE(sat)}$	Collector Saturation Voltage ($I_C = 0.5A_{dc}$, $I_B = 50mA_{dc}$)	---	---	1	Vdc
C_{ob}	Output Capacitance ($V_{CE} = 10.0Vdc$, $I_E = 0$, $f = 1.0MHz$)	---	---	30	pF
f_T	Transition frequency ($V_{CE} = 5Vdc$, $I_C = 500mA_{dc}$)	---	120	---	MHz

h_{FE} CLASSIFICATION

Rank	O	Y
Marking	CO	CY
Range	80-160	120-240

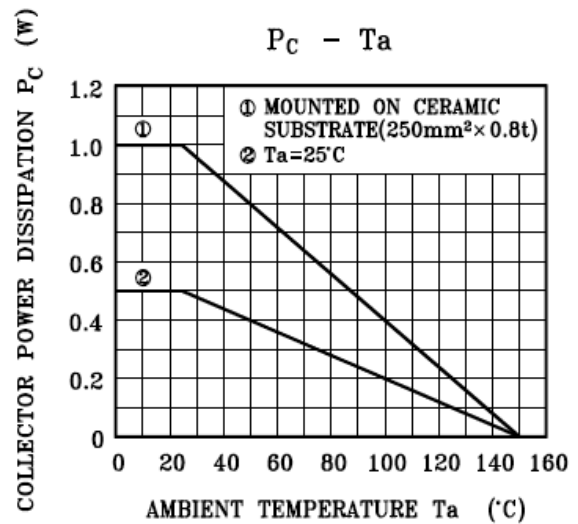
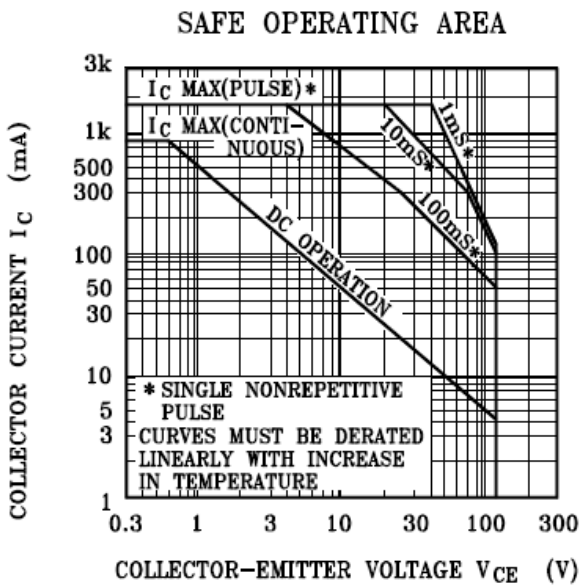
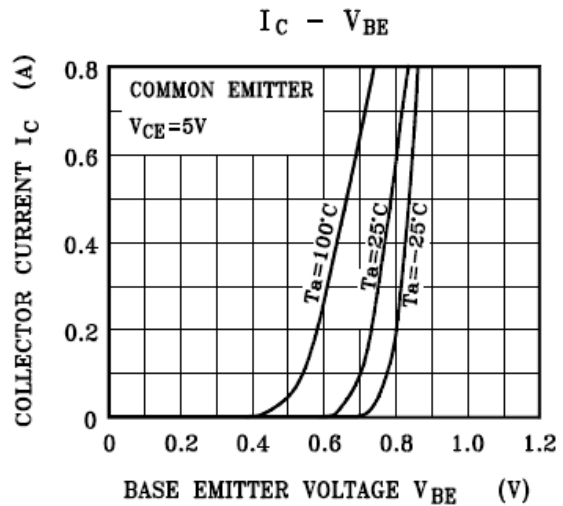
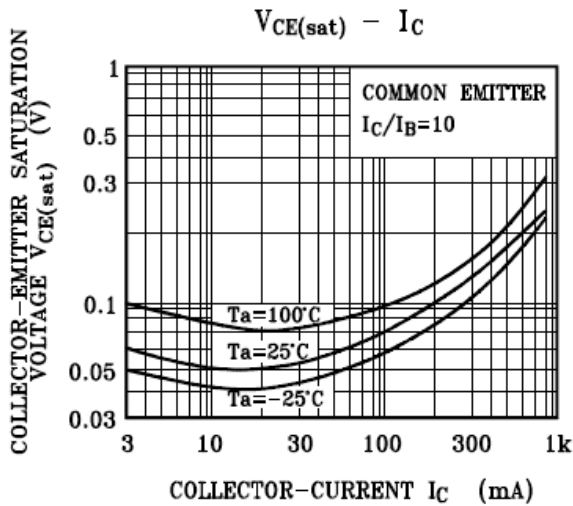
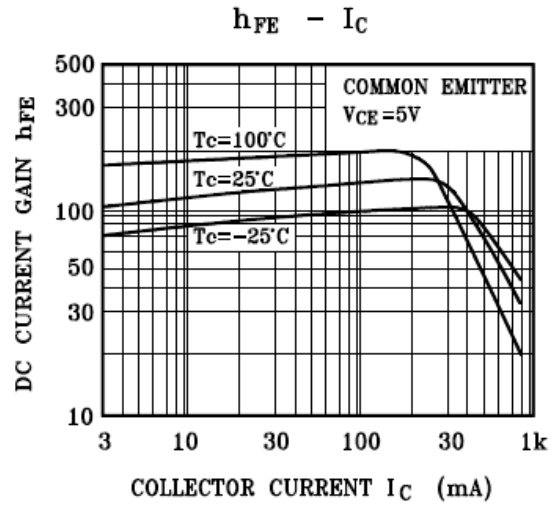
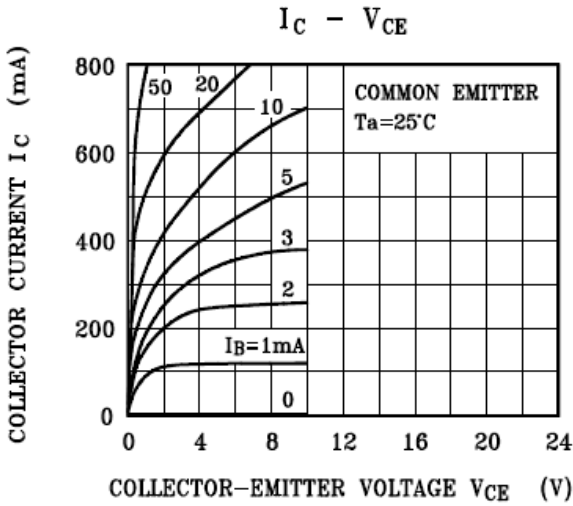
SOT-89



1. BASE
2. COLLECTOR
3. EMITTER

DIM	DIMENSIONS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

Typical Characteristics





Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

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