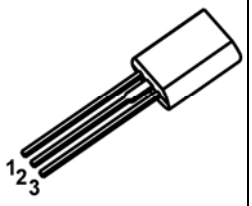
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92MOD Plastic-Encapsulate Transistors

2SC1627A TRANSISTOR (NPN)

TO-92MOD

1. EMITTER
2. COLLECTOR
3. BASE



FEATURE

- Complementary to 2SA817A
- Driver Stage Application of 30 to 35 Watts Amplifiers

MAXIMUM RATINGS(T_a=25℃ unless otherwise noted)

Symbol	parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	80	V
V_{CEO}	Collector-Emitter Voltage	80	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	0.4	A
P_C	Collector Power Dissipation	0.8	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55-150	℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

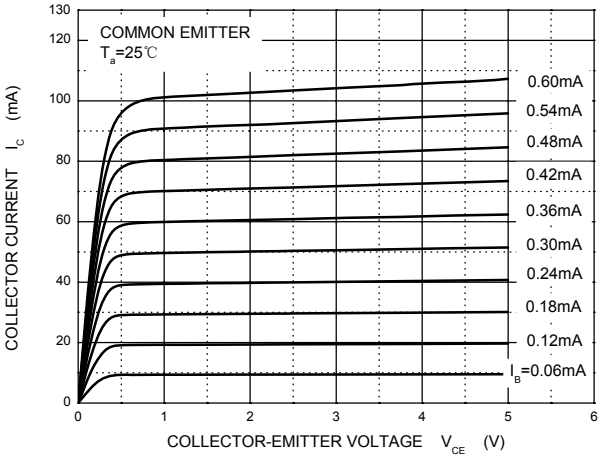
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=100μA , I_E=0	80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=5mA, IB=0	80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=100μA, I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=50V, IE=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=5V, IC=0			0.1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=2 V, IC= 50mA	70		240	
	$h_{FE(2)}$	V_{CE}=2 V, IC= 200mA	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C= 200m A, I_B= 20mA			0.4	V
Base-emitter voltage	$V_{BE(on)}$	V_{CE}= 2V, IC= 5mA	0.55		0.8	V
Transition frequency	f_T	V_{CE}= 10 V, I_C= 10mA		100		MHz

CLASSIFICATION OF $h_{FE(1)}$

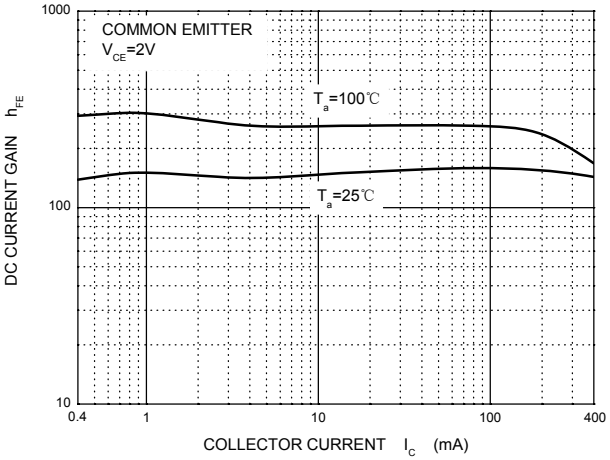
Rank	O	Y
Range	70-140	120-240

Typical Characteristics

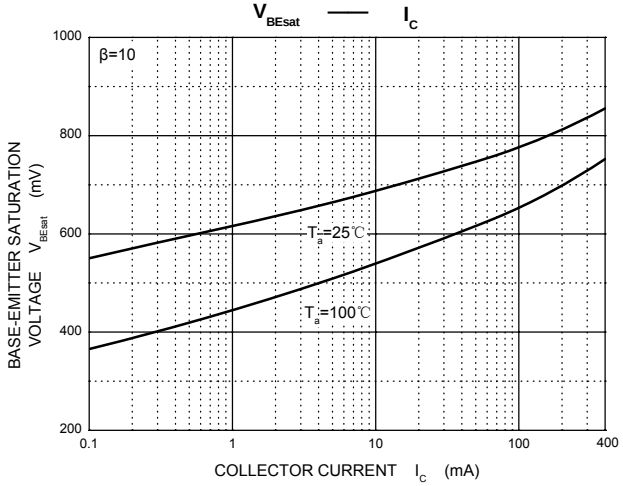
Static Characteristic



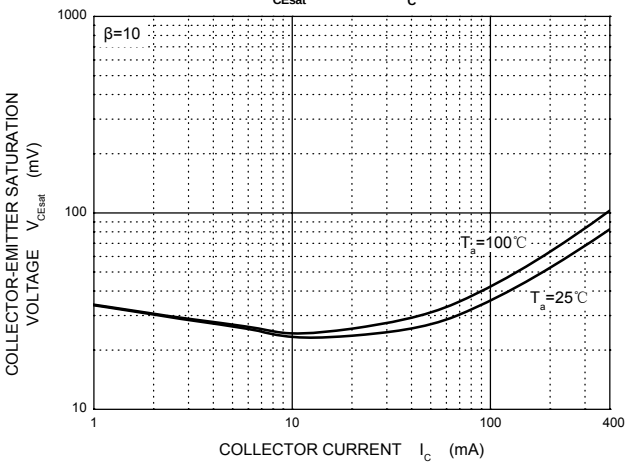
h_{FE} —— I_C



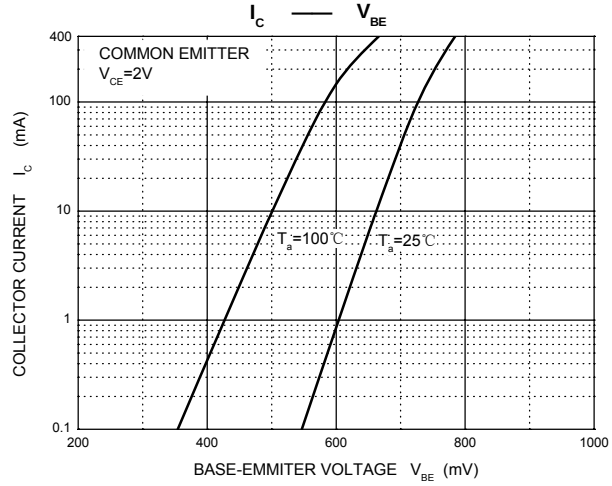
V_{BEsat} —— I_C



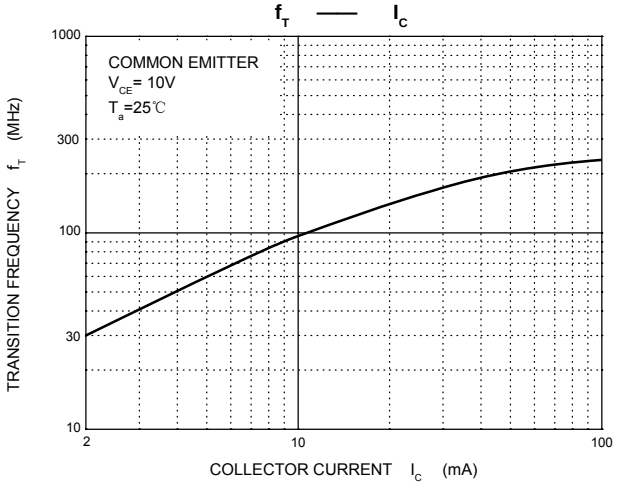
V_{CEsat} —— I_C



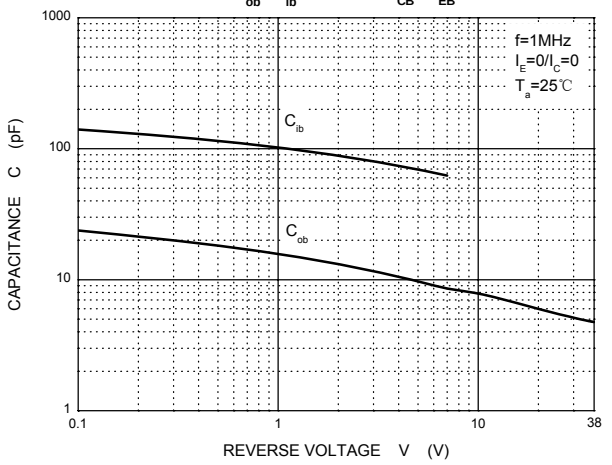
I_C —— V_{BE}



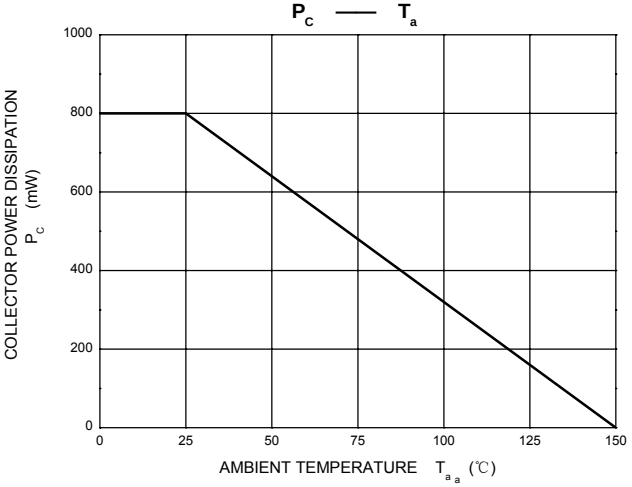
f_T —— I_C



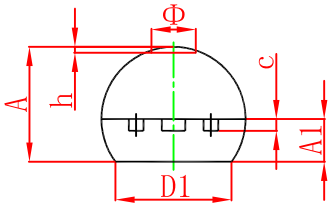
C_{ob}/ C_{ib} —— V_{CB}/ V_{EB}

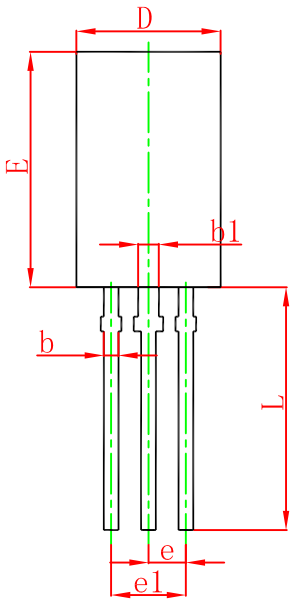


P_C —— T_a



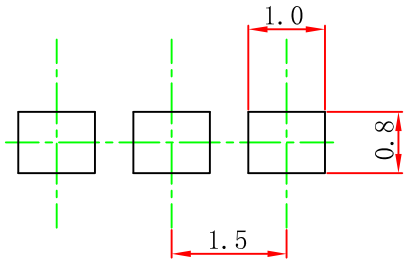
TO-92MOD Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.800	5.000	0.189	0.197
A1	1.730	2.030	0.068	0.080
b	0.440	0.600	0.017	0.024
b1	0.940	1.100	0.037	0.043
c	0.350	0.450	0.014	0.018
D	5.900	6.100	0.232	0.240
D1	4.000		0.157	
E	8.500	8.700	0.335	0.343
e	1.500 TYP.		0.059 TYP.	
e1	2.900	3.100	0.114	0.122
L	13.800	14.200	0.543	0.559
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92MOD Suggested Pad Layout

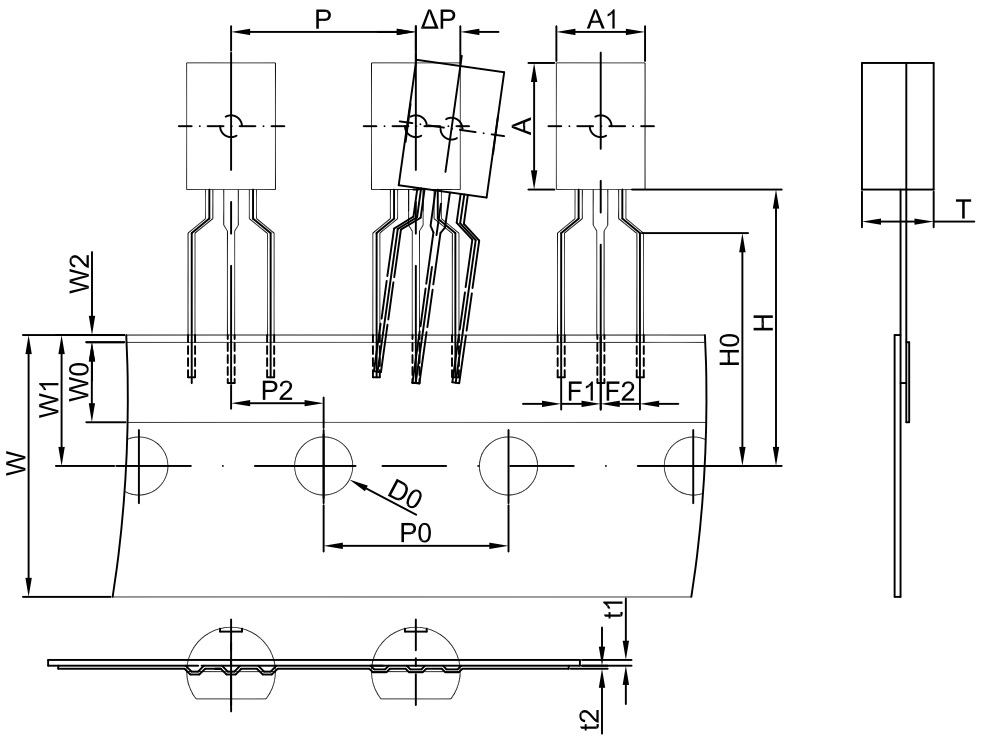


Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.

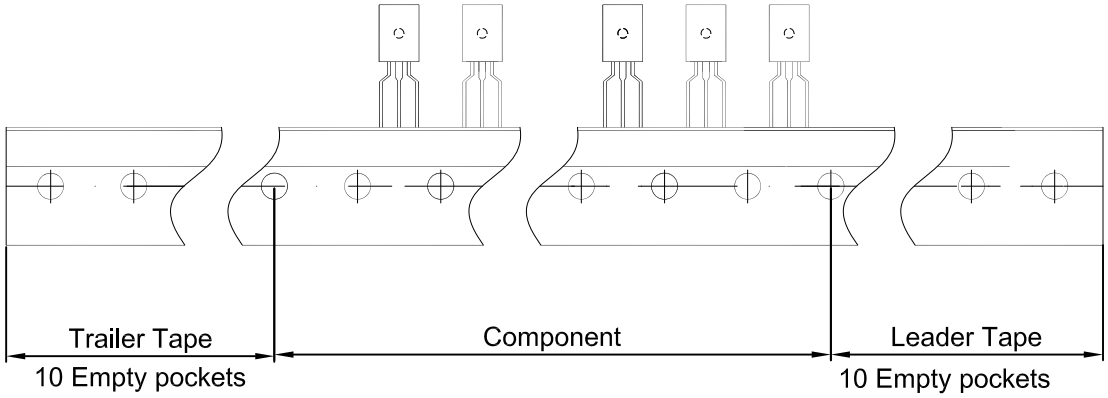
NOTICE

JCET reserve the right to make modifications,enhancements, improvements, corrections or other changes without further notice to any product herein.JCET does not assume any liability arising out of the application or use of any product described herein.

TO-92MOD PACKAGE TAPEING DIMENSION



Dimiensions are in millimeter								
A1	A	T	P	P0	P2	F1	F2	W
6.0	8.6	4.9	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0	19.0	16.0	4.0	0.4	0.2	0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92MOD	2000 pcs	333×245×43	20,000 pcs	573×404×266