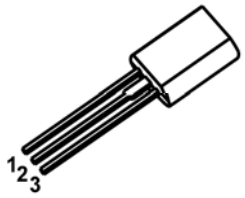
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

JSCJ TO-92MOD Plastic-Encapsulate Transistors

2SC2655 TRANSISTOR (NPN)

TO-92MOD



FEATURES

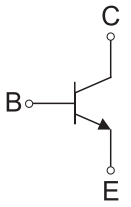
- Low Saturation Voltage: $V_{CE(sat)}$=0.5V(Max)(I_C=1A)
- High Speed Switching Time: t_{stg}=1μs(Typ.)
- Complementary to 2SA1020

MARKING



C2655=Device code
Solid dot = Green molding compound device, if none, the normal device
XXX=Code

Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2655	TO-92MOD	Bulk	500pcs/Bag
2SC2655-TA	TO-92MOD	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25 ℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	2	A
P_C	Collector Power Dissipation	0.9	W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55 to +150	℃

ELECTRICAL CHARACTERISTICS

T_a=25℃ unless otherwise specified

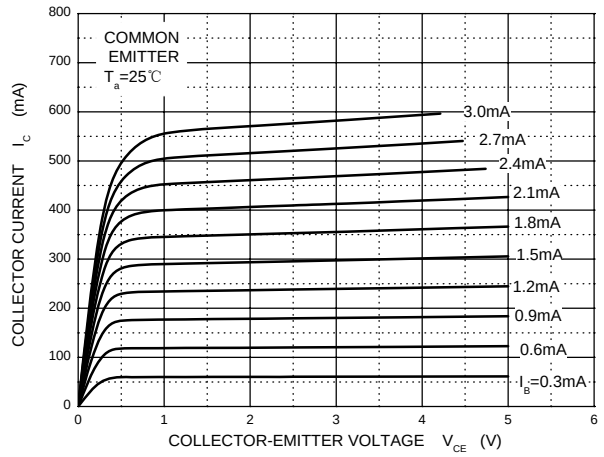
Parameter		Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage		$V_{(BR)CBO}$	I_C=100μA,I_E=0	50			V
Collector-emitter breakdown voltage		$V_{(BR)CEO}$	I_C=10mA,I_B=0	50			V
Emitter-base breakdown voltage		$V_{(BR)EBO}$	I_E=100μA,I_C=0	5			V
Collector cut-off current		I_{CBO}	V_{CB}=50V,I_E=0			1	μA
Emitter cut-off current		I_{EBO}	V_{EB}=5V,I_C=0			1	μA
DC current gain		$h_{FE(1)}$	V_{CE}=2V,I_C=500mA	70		240	
		$h_{FE(2)}$	V_{CE}=2V,I_C=1.5A	40			
Collector-emitter saturation voltage		$V_{CE(sat)}$	I_C=1A,I_B=0.05A			0.5	V
Base-emitter saturation voltage		$V_{BE(sat)}$	I_C=1A,I_B=0.05A			1.2	V
Transition frequency		f_T	V_{CE}=2V,I_C=0.5A		100		MHz
Collector output capacitance		C_{ob}	V_{CB}=10V,I_E=0,f=1MHz		30		pF
Switch time	**Tune on Time**	t_{on}	V_{CC}=30V,Ic=1A, I_{B1}=-I_{B2}=0.05A		0.1		μs
	Storage Time	t_{stg}			1		
	Fall Time	t_f			0.1		

CLASSIFICATION OF $h_{FE(1)}$

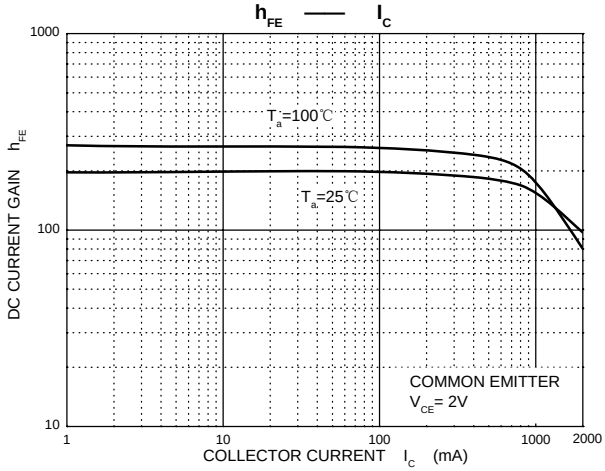
Rank	O	Y
Range	70-140	120-240

Typical Characteristics

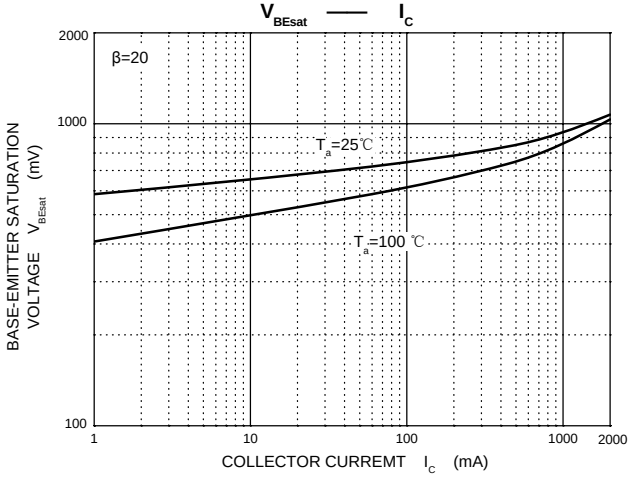
Static Characteristic



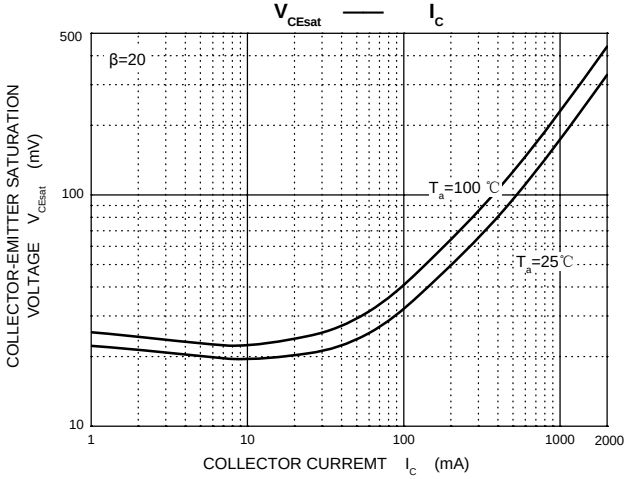
h_{FE} —— I_C



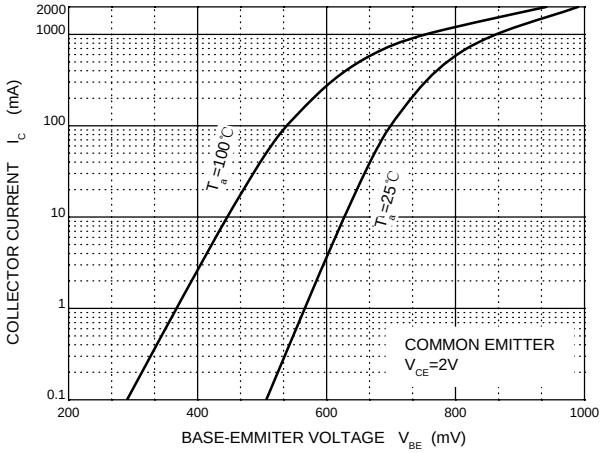
V_{BEsat} —— I_C



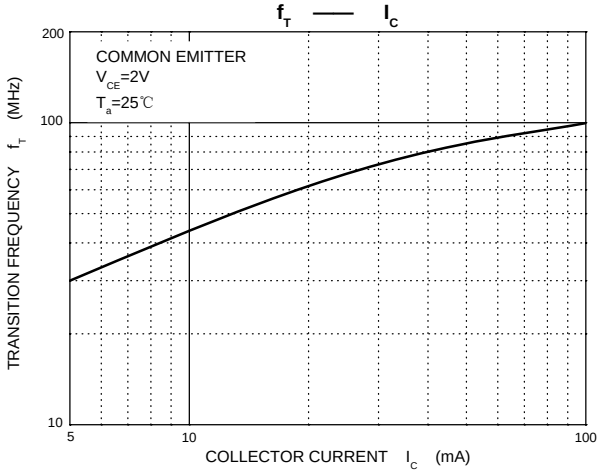
V_{CEsat} —— I_C



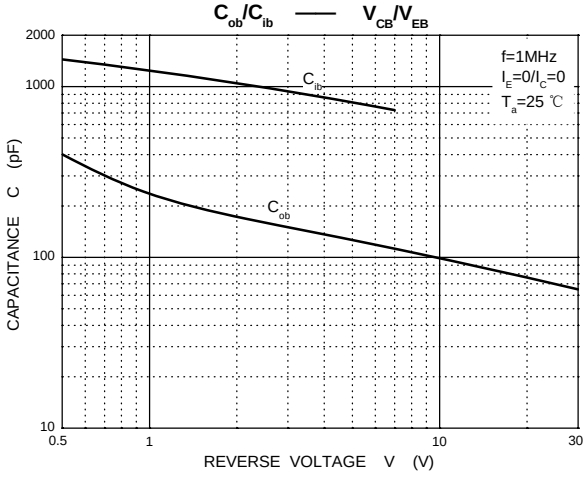
V_{BE} —— I_C



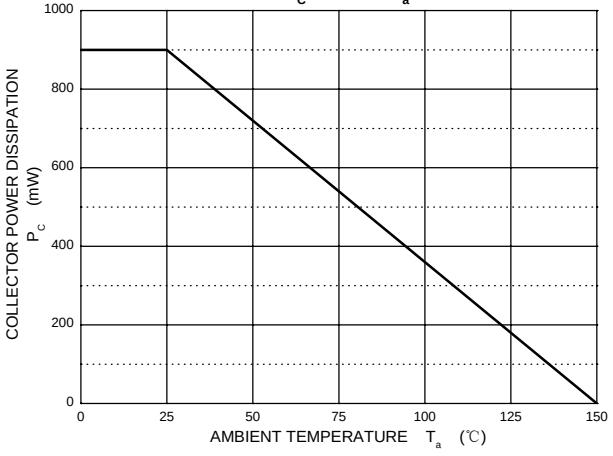
f_T —— I_C



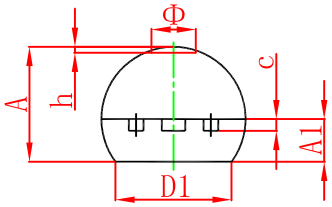
C_{ob}/C_{ib} —— V_{CB}/V_{EB}

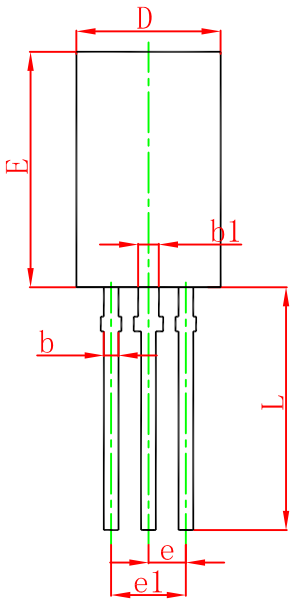


P_C —— T_a



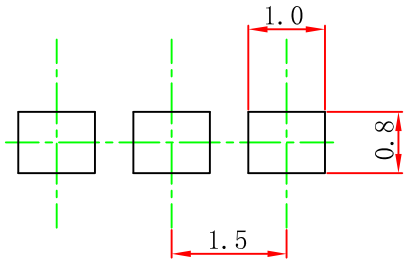
TO-92MOD Package Outline Dimensions





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

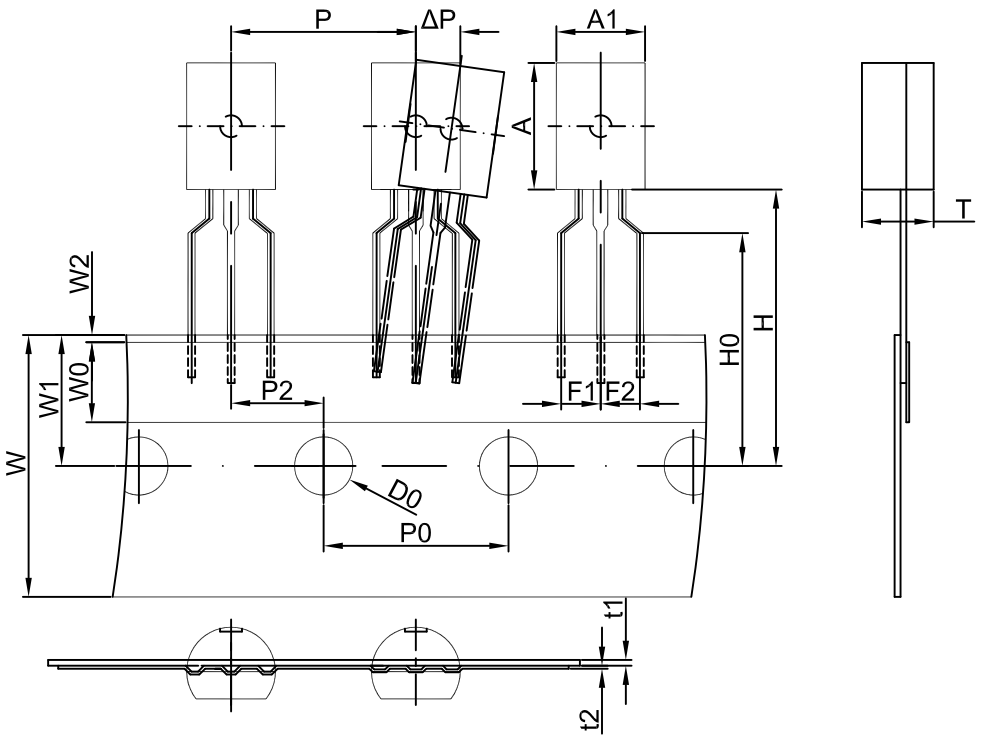
TO-92MOD Suggested Pad Layout



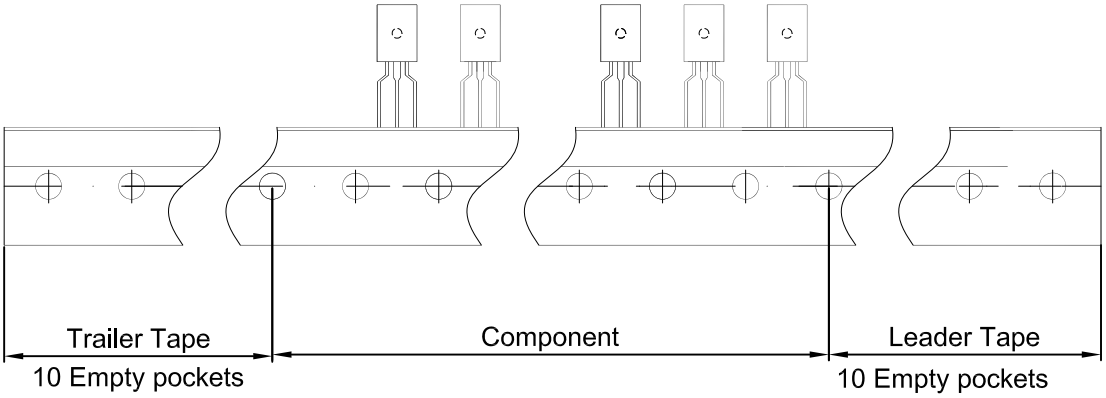
Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.

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

TO-92MOD PACKAGE TAPING 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