

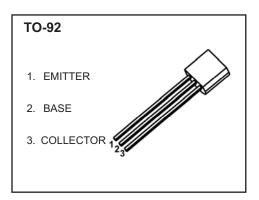
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92 Plastic-Encapsulate Transistors

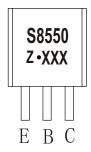
\$8550 TRANSISTOR (PNP)

FEATURE

Excellent h_{FE} Linearity



MARKING



S8550=Device code

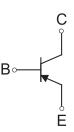
Solid dot=Green molding compound device,

if none,the normal device

 $Z=Rank of h_{FE}$,

XXX=Code

Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
S8550	TO-92	Bulk	1000pcs/Bag
S8550-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T₂=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current -Continuous	-0.5	А
P _D	Collector Power Dissipation	625	mW
R _{θ JA}	Thermal Resistance from Junction to Ambient	200	°C /W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~+150	℃

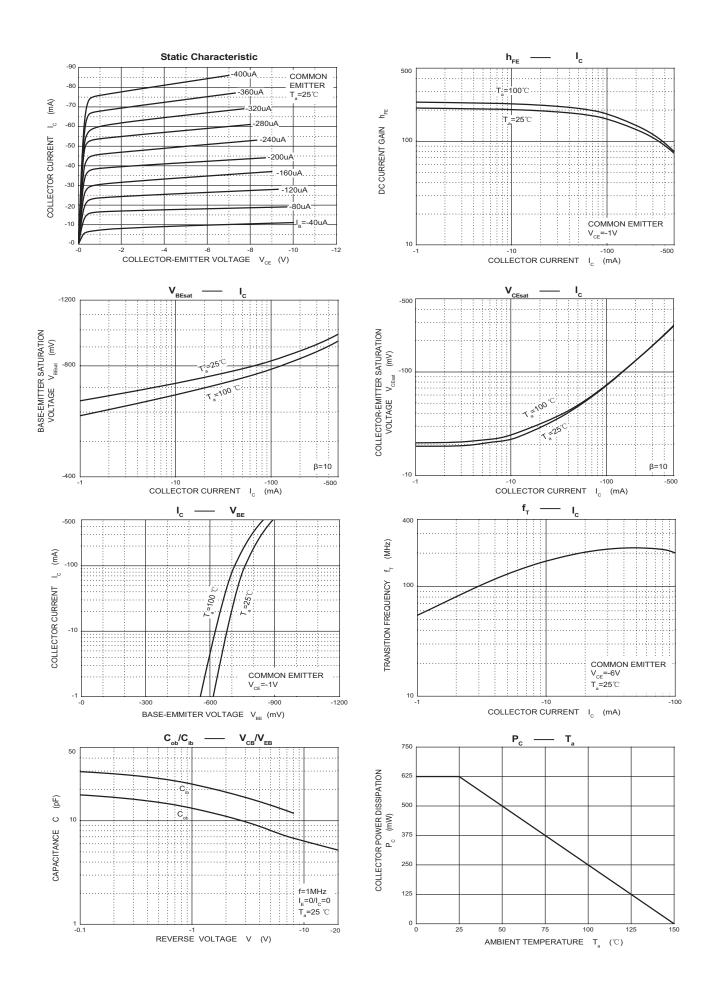
ELECTRICAL CHARACTERISTICS

T_a =25 $^{\circ}$ C unless otherwise specified

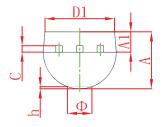
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100uA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B =0	-25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100uA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} = -40V, I _E =0			-0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} = -20V, I _B =0			-0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = - 3V, I _C =0			-0.1	uA
DC current gain	h _{FE(1)}	V _{CE} = -1V, I _C = -50mA	85		400	
Do current gam	h _{FE(2)}	V _{CE} = -1V, IC= -500mA	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B =-50mA			-0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-500mA, I _B =-50mA			-1.2	V
Transition frequency	f⊤	V _{CE} =- 6V, I _C =-20mA, f =30MHz	150			MHz

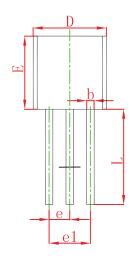
CLASSIFICATION OF hfe(1)

Rank	В	С	D	D3
Range	85-160	120-200	160- 300	300- 400



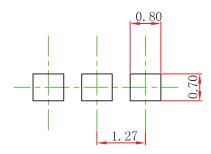
TO-92 Package Outline Dimensions





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	3.300	3.700	0.130	0.146	
A1	1.100	1.400	0.043	0.055	
b	0.380	0.550	0.015	0.022	
С	0.360	0.510	0.014	0.020	
D	4.300	4.700	0.169	0.185	
D1	3.430		0.135		
E	4.300	4.700	0.169	0.185	
е	1.27	1.270 TYP) TYP	
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	

TO-92 Suggested Pad Layout



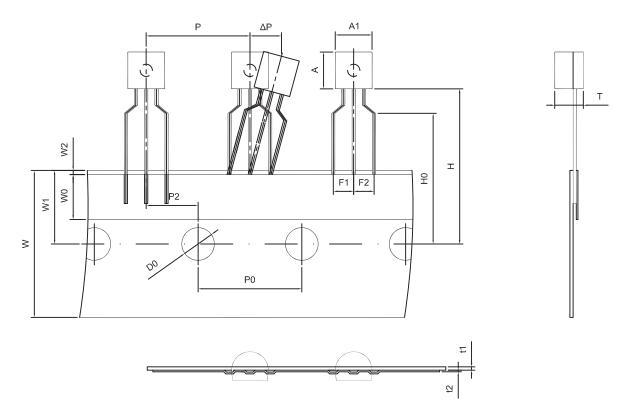
Note:

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

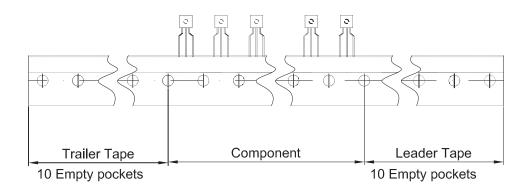
NOTICE

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-92 PACKAGE TAPEING DIMENSION



Dimiensions are in millimeter								
A1	A1 A T P P0 P2 F1 F2 W							
4.5	4.5	3.5	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	Н	H0	D0	t1	t2	ΔΡ
6.0	9.0	1.0 MAX.	19.0	16.0	4.0	0.4	0.2	0



Package	Вох	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000 pcs	333×162×43	20,000 pcs	350×340×250