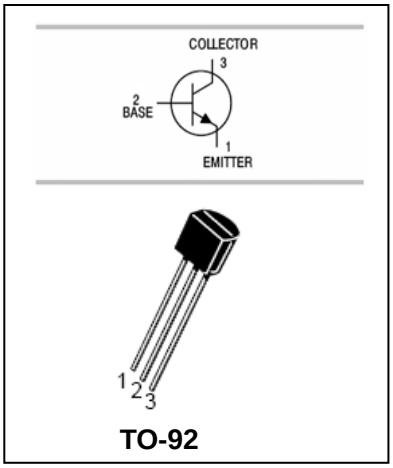
FEATURES

- Collector Current.(I_C= 1.5A)
- Complementary To SS8550.
- Collector Power Dissipation:P_C=2W(T_C=25℃)



TO-92

APPLICATIONS

- High Collector Current.

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	Parameter	Ratings	Units
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	1.5	A
P_C	Collector Dissipation	1	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65 to +150	℃

ELECTRICAL CHARACTERISTICS @ Ta=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	40	-	-	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=2mA,I_B=0	25	-	-	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=100μA,I_C=0	6	-	-	V
Collector cut-off current	I_{CBO}	V_{CB}=35V,I_E=0	-	-	0.1	μA
Collector cut-off current	I_{CEO}	V_{CE}=20V,I_B=0	-	-	0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=6V,I_C=0	-	-	0.1	μA
DC current gain	h_{FE}	V_{CE}=1V,I_C=5mA V_{CE}=1V,I_C=100mA V_{CE}=1V,I_C=800mA	45 85 40	135 160 110	300	- -
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=800 mA, I_B= 80mA	-	0.28	0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=800 mA, I_B= 80mA	-	0.98	1.2	V
Base-emitter voltage	V_{BE}	V_{CE}=1V I_C=10mA	-	0.66	1	V
Output capacitance	C_{ob}	V_{CB}=10V, I_E=0 f=1MHz		9.0	-	pF
Transition frequency	f_T	V_{CE}=10V, I_C= 50mA	100	190	-	MHz

h_{FE} CLASSIFICATION

Classification	B	C	D
h	85-160	120-200	160-300

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

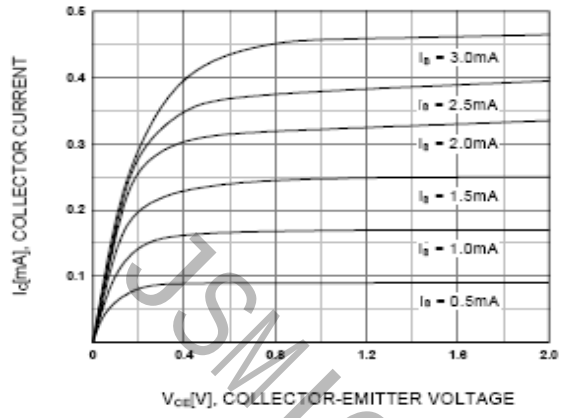


Figure 1. Static Characteristic

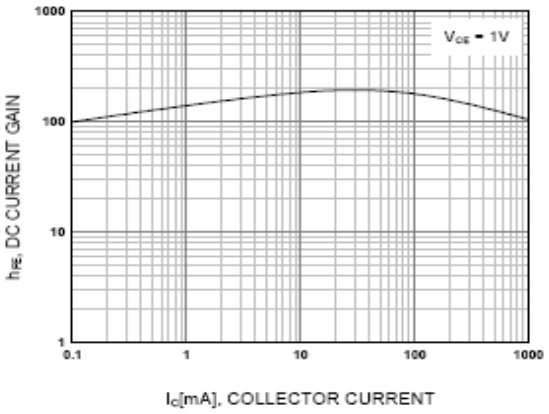


Figure 2. DC current Gain

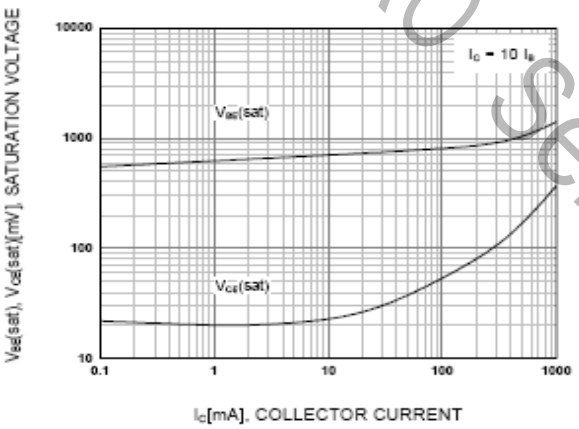


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

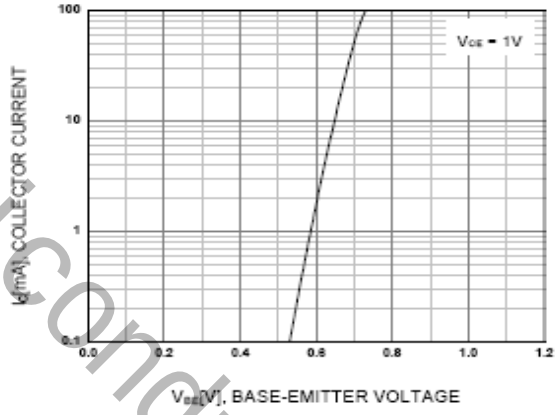


Figure 4. Base-Emitter On Voltage

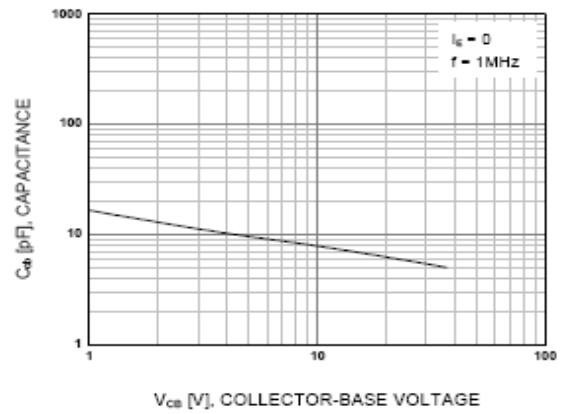


Figure 5. Collector Output Capacitance

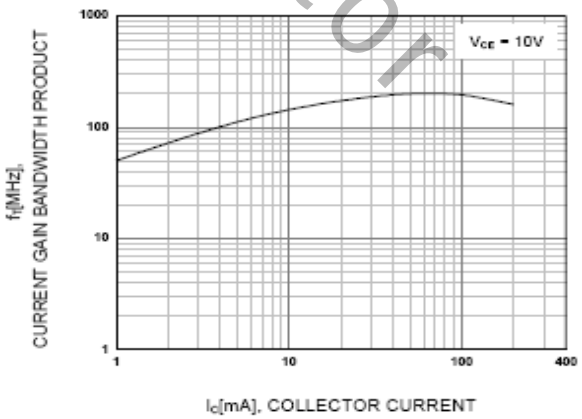
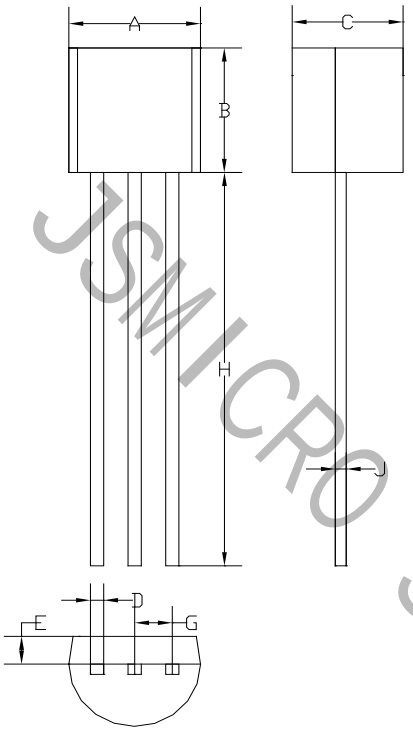


Figure 6. Current Gain Bandwidth Product

PACKAGE OUTLINE

Plastic surface mounted package TO-92



TO-92		
Dim	Min	Max
A	4.4	4.7
B	4.3	4.7
C	3.43Typical	
D	0.38	0.55
E	1.1	1.4
G	1.27 Typical	
H	14.1	14.5
J	0.36	0.51
All Dimensions in mm		

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