ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
BV_{CBO}	Collector−Base Breakdown Voltage	I_C = −100 μA, I_E = 0	−40			V
BV_{CEO}	Collector−Emitter Breakdown Voltage	I_C = −2 mA, I_B = 0	−25			V
BV_{EBO}	Emitter−Base Breakdown Voltage	I_E = −100 μA, I_C = 0	−6			V
I_{CBO}	Collector Cut−Off Current	V_{CB} = −35 V, I_E = 0			−100	nA
I_{EBO}	Emitter Cut−Off Current	V_{EB} = −6 V, I_C = 0			−100	nA
h_{FE1}	DC Current Gain	V_{CE} = −1 V, I_C = −5 mA	45	170		
h_{FE2}		V_{CE} = −1 V, I_C = −100 mA	85	160	300	
h_{FE3}		V_{CE} = −1 V, I_C = −800 mA	40	80		
V_{CE}(sat)	Collector−Emitter Saturation Voltage	I_C = −800 mA, I_B = −80 mA		−0.28	−0.50	V
V_{BE}(sat)	Base−Emitter Saturation Voltage	I_C = −800 mA, I_B = −80 mA		−0.98	−1.20	V
V_{BE}(on)	Base−Emitter On Voltage	V_{CE} = −1 V, I_C = −10 mA		−0.66	−1.00	V
C_{ob}	Output Capacitance	V_{CB} = −10 V, I_E = 0, f = 1 MHz		15		pF
f_T	Current Gain Bandwidth Product	V_{CE} = −10 V, I_C = −50 mA	100	200		MHz

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

h_{FE} CLASSIFICATION

Classification	C	D
h_{FE2}	120 ~ 200	160 ~ 300

ORDERING INFORMATION

Part Number	Top Mark	Package	Shipping
SS8550CBU	S8550C	TO−92−3, case 135AN (Pb−Free)	10,000 Units/ Bulk Box
SS8550CTA	S8550C	TO−92−3, case 135AR (Pb−Free)	2,000 Units/ Fan−Fold
SS8550DBU	S8550D	TO−92−3, case 135AN (Pb−Free)	10,000 Units/ Bulk Box
SS8550DTA	S8550D	TO−92−3, case 135AR (Pb−Free)	2,000 Units/ Fan−Fold

TYPICAL PERFORMANCE CHARACTERISTICS

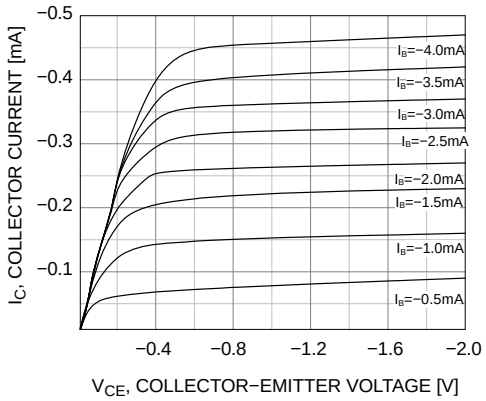


Figure 1. Static Characteristic

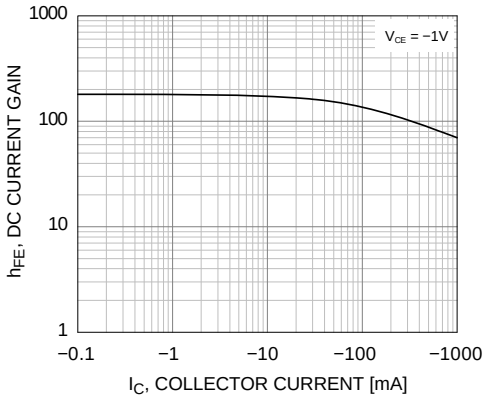


Figure 2. DC Current Gain

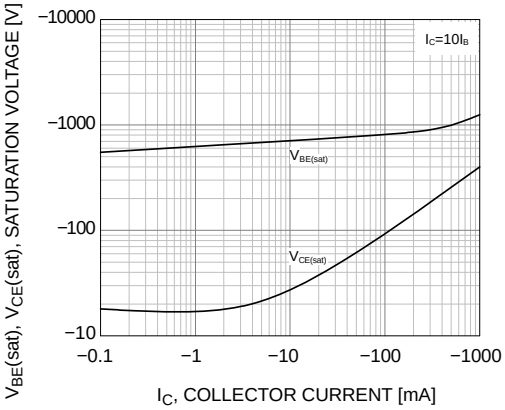


Figure 3. Base−Emitter Saturation Voltage and Collector−Emitter Saturation Voltage

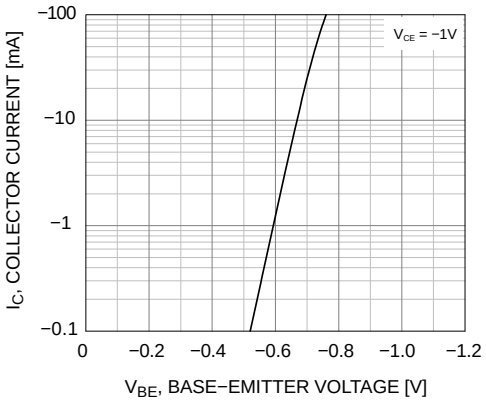


Figure 4. Base−Emitter On Voltage

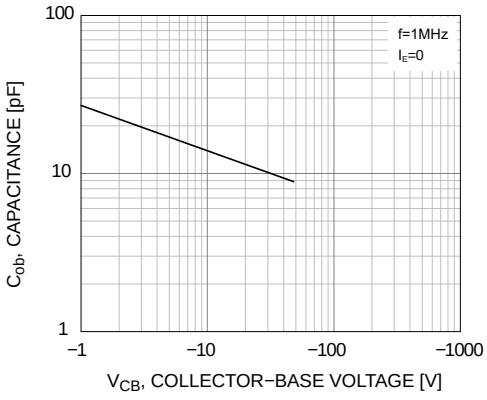


Figure 5. Collector Output Capacitance

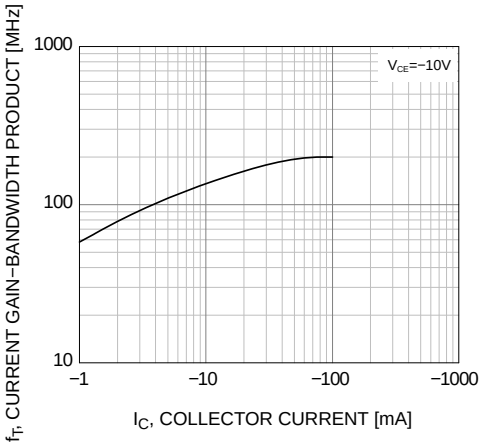
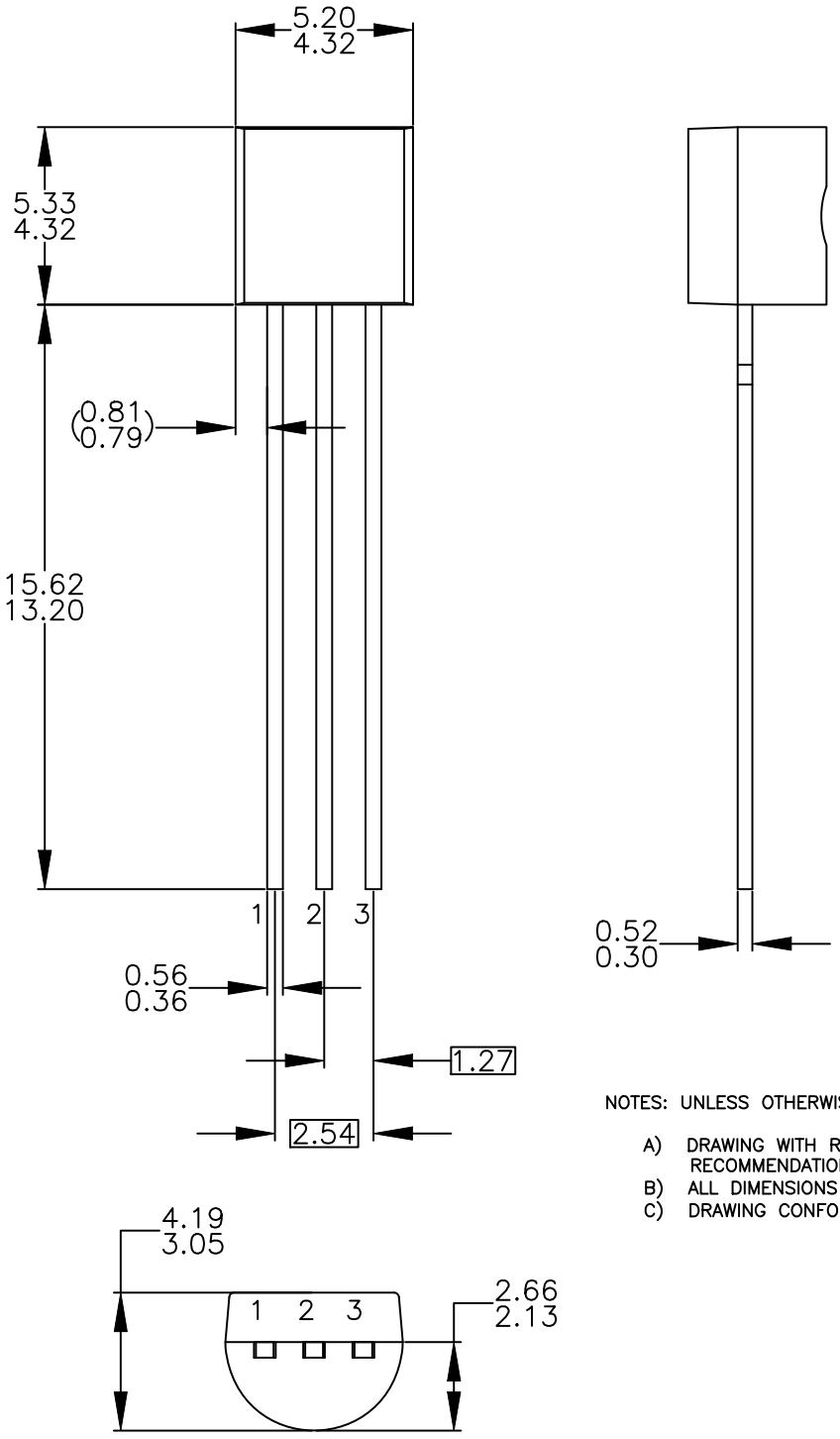


Figure 6. Current Gain Bandwidth Product

TO−92 3 4.825x4.76
CASE 135AN
ISSUE O

DATE 31 JUL 2016



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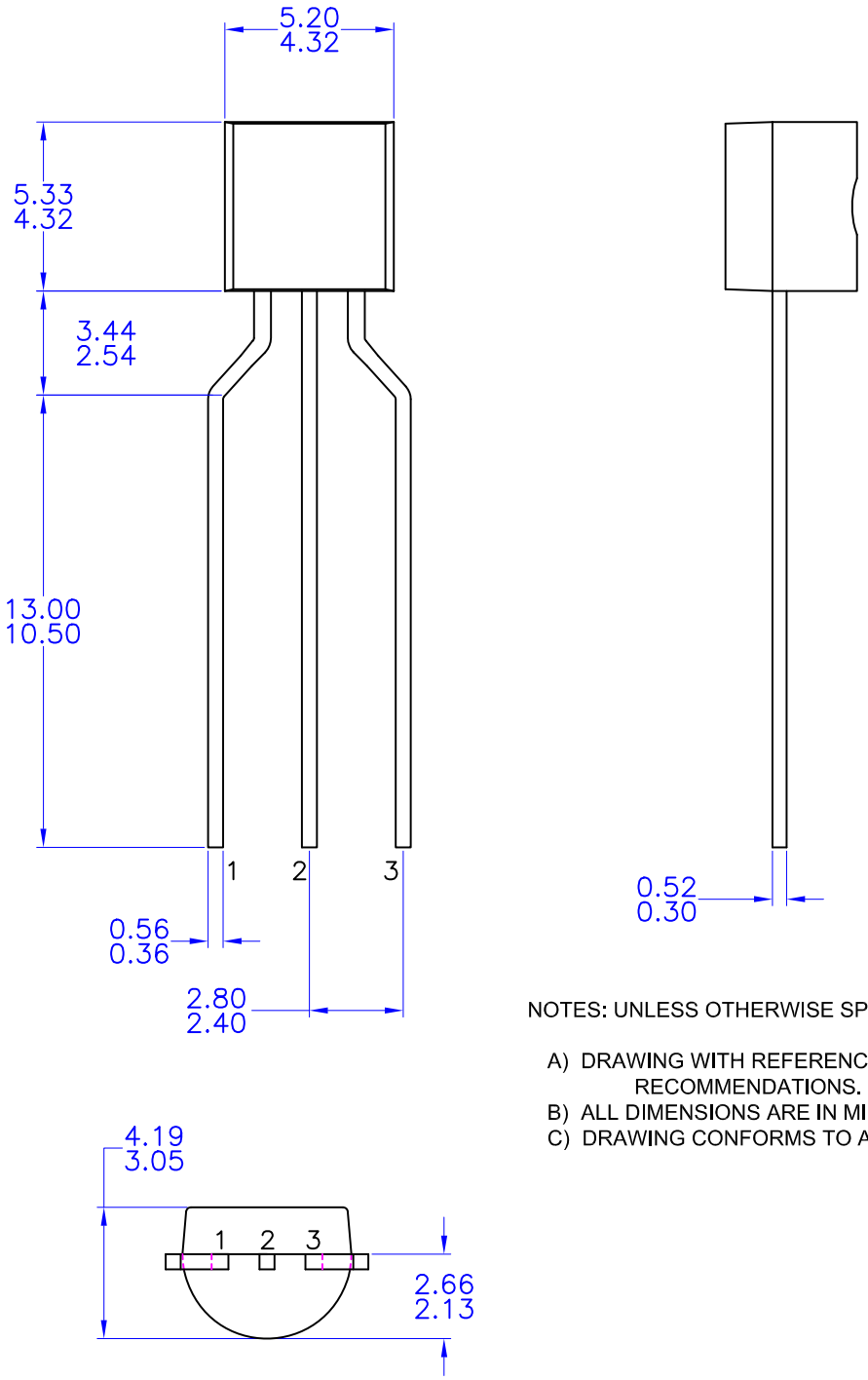
MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

ON Semiconductor®

TO−92 3 4.83x4.76 LEADFORMED
CASE 135AR
ISSUE O

DATE 30 SEP 2016



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