SS8550

ELECTRICAL CHARACTERISTICS ($T_C = 25^{\circ}C$ unless otherwise noted)

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = -100 \mu A, I_E = 0$	-40			V
BV _{CEO}	Collector–Emitter Breakdown Voltage	$I_C = -2 \text{ mA}, I_B = 0$	-25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -100 \mu A, I_C = 0$	-6			V
I _{CBO}	Collector Cut-Off Current	$V_{CB} = -35 \text{ V}, I_{E} = 0$			-100	nA
I _{EBO}	Emitter Cut-Off Current	$V_{EB} = -6 \text{ V}, I_C = 0$			-100	nA
h _{FE1}	DC Current Gain	$V_{CE} = -1 \text{ V, } I_{C} = -5 \text{ mA}$	45	170		
h _{FE2}		$V_{CE} = -1 \text{ V, } I_{C} = -100 \text{ mA}$	85	160	300	
h _{FE3}		$V_{CE} = -1 \text{ V, } I_{C} = -800 \text{ mA}$	40	80		
V _{CE} (sat)	Collector–Emitter Saturation Voltage	$I_C = -800 \text{ mA}, I_B = -80 \text{ mA}$		-0.28	-0.50	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_C = -800 \text{ mA}, I_B = -80 \text{ mA}$		-0.98	-1.20	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -1 \text{ V, } I_{C} = -10 \text{ mA}$		-0.66	-1.00	V
C _{ob}	Output Capacitance	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		15		pF
f _T	Current Gain Bandwidth Product	$V_{CE} = -10 \text{ V}, I_{C} = -50 \text{ mA}$	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.

$h_{\mbox{\scriptsize FE}}$ CLASSIFICATION

Classification	С	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

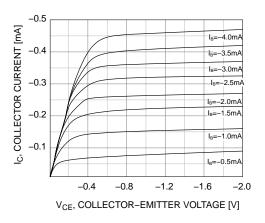


Figure 1. Static Characteristic

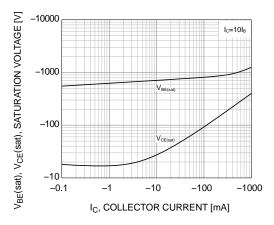


Figure 3. Base–Emitter Saturation Voltage and Collector–Emitter Saturation Voltage

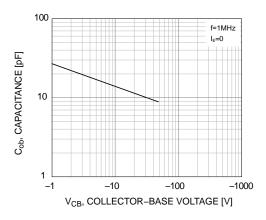


Figure 5. Collector Output Capacitance

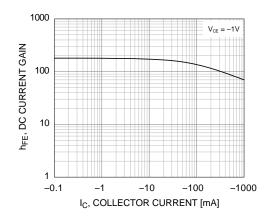


Figure 2. DC Current Gain

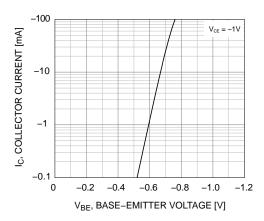


Figure 4. Base-Emitter On Voltage

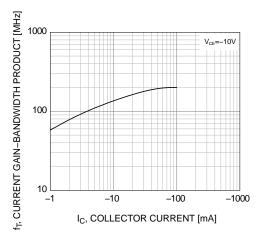
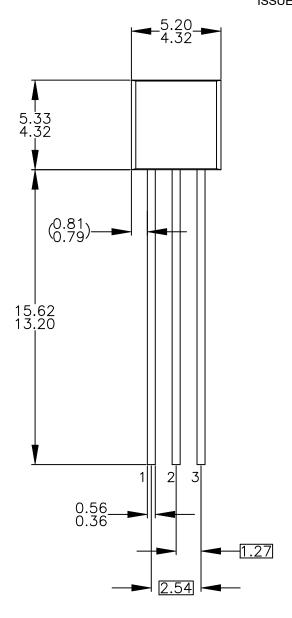
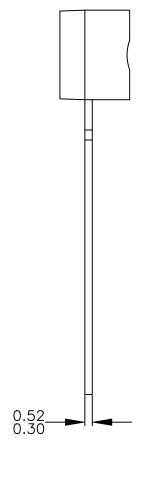


Figure 6. Current Gain Bandwidth Product

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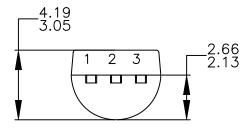
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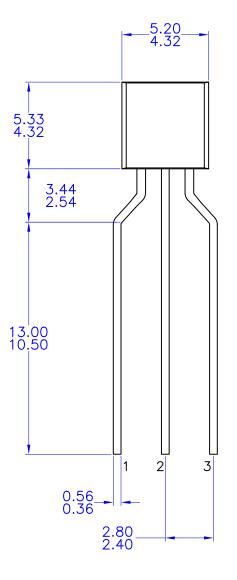
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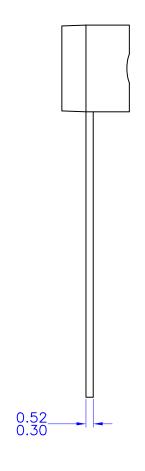
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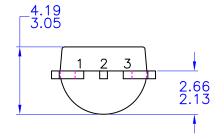
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