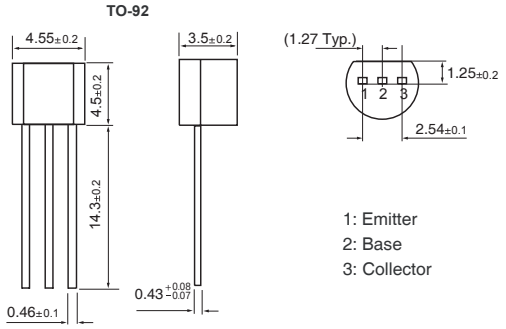
FEATURES

- Complimentary to S8550
- Collector Current: I_C = 0.5 A



ABSOLUTE MAXIMUM RATINGS at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Currrent	I_C	500	mA
Total Power Dissipation	P_D	625	mW
Junction, Storage Temperature	T_J, T_{STG}	+150, -55 ~ +150	℃

ELECTRICAL CHARACTERISTICS (T_{AMB} = 25°C unless otherwise specified)

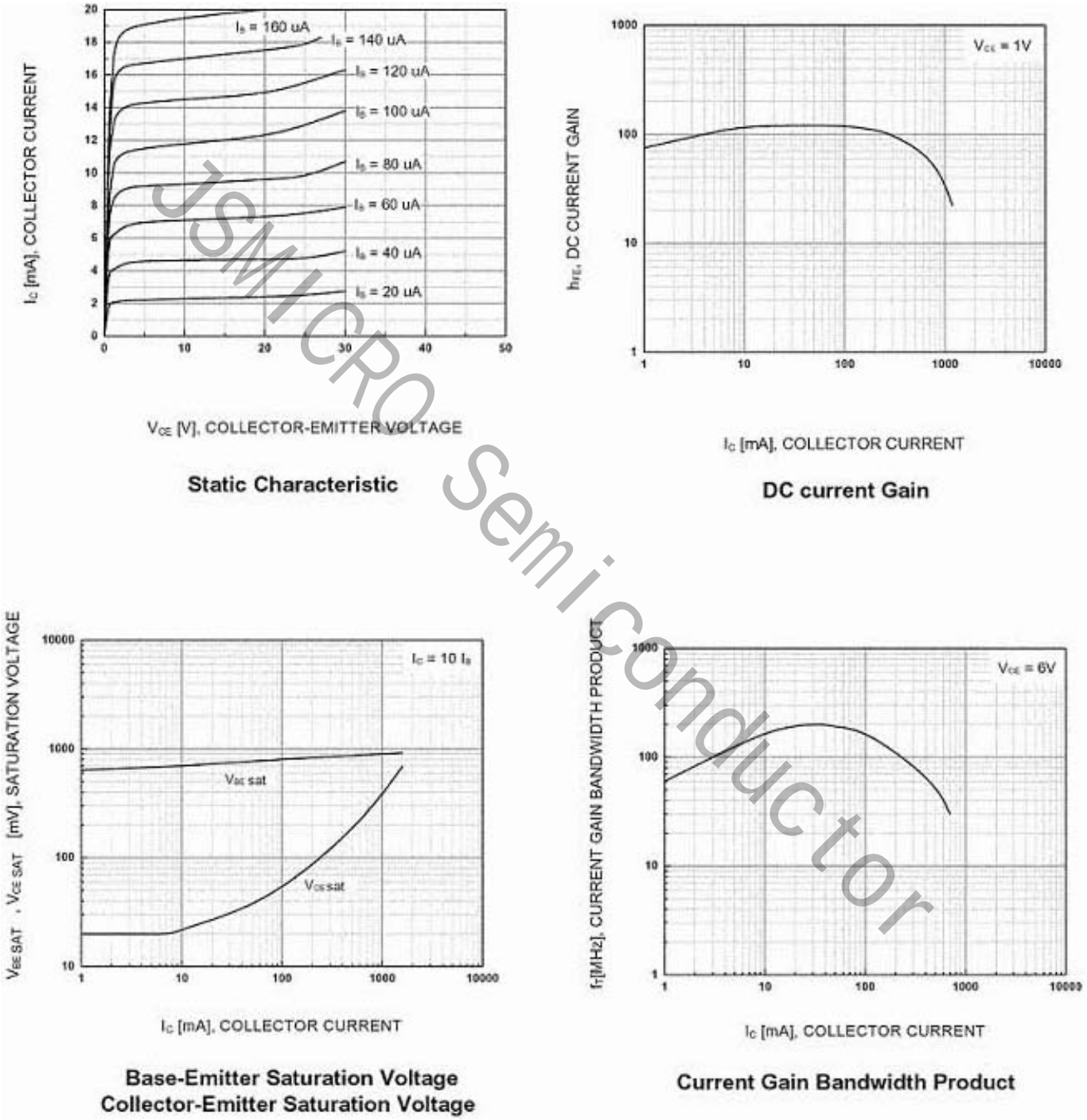
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base Breakdown Voltage	$V_{(BR)CBO}$	40	-	-	V	I_C = 100 μA, I_E = 0
Collector-emitter Breakdown Voltage	$V_{(BR)CEO}$	25	-	-	V	I_C = 0.1 mA, I_B = 0
Emitter-base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	I_E = 100 μA, I_C = 0
Collector Cut-off Current	I_{CBO}	-	-	0.1	μA	V_{CB} = 40 V, I_E = 0
Collector Cut-off Current	I_{CEO}	-	-	0.1	μA	V_{CE} = 20 V, I_B = 0
Emitter Cut-off Current	I_{EBO}	-	-	0.1	μA	V_{EB} = 5 V, I_C = 0
DC Current Gain	$h_{FE(1)}$	85	-	400		V_{CE} = 1 V, I_C = 50 mA
	$h_{FE(2)}$	50	-	-		V_{CE} = 1 V, I_C = 500 mA
Collector-emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.6	V	I_C = 500 mA, I_B = 50 mA
Base-emitter Saturation Voltage	$V_{BE(sat)}$	-	-	1.2	V	I_C = 500 mA, I_B = 50 mA
Transition Frequency	f_T	150	-	-	MHz	V_{CE} = 6 V, I_C= 20 mA, f = 30 MHz

CLASSIFICATION OF h_{FE}

Rank	B	C	D
Range	85 - 160	120 - 200	160 - 300

CHARACTERISTIC CURVES

S8050



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