


**S8050**

**Features:**

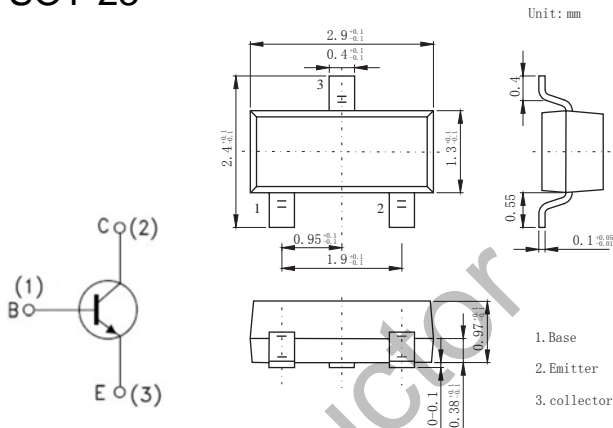
- Complimentary to S8550
- Collector Current: IC=0.5A

Marking: J3Y

**SOT-23**



Unit: mm



1. Base  
2. Emitter  
3. collector

### Absolute Maximum Ratings\* (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
$BV_{CBO}$	Collector-Base Voltage	40	V
$BV_{CEO}$	Collector-Emitter Voltage	25	V
$BVEBO$	Emitter-Base Voltage	5	V
$I_C$	Collector Current	0.5	A
$P_D$	Collector Power Dissipation	0.3	W
$T_j, T_{stg}$	Junction and Storage Temperature	-55~+150	°C

### Electrical Characteristics\* (Ta=25°C unless otherwise noted)

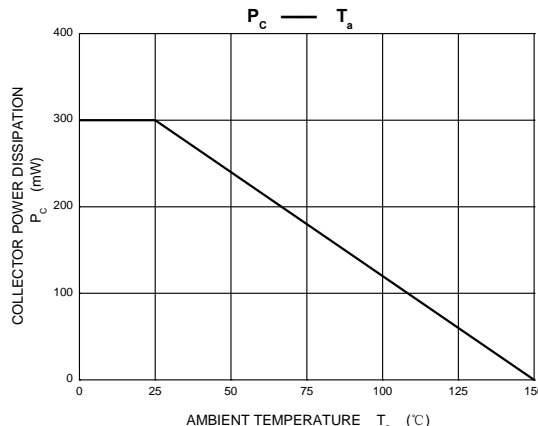
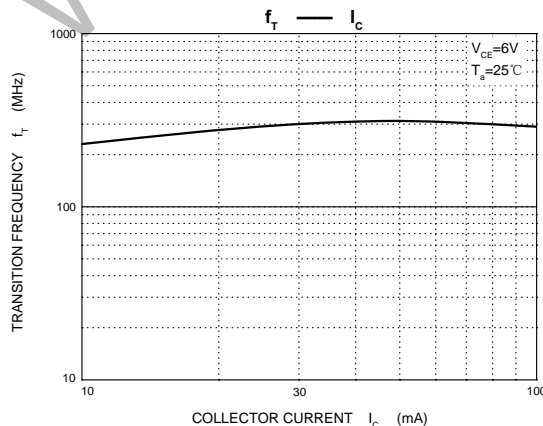
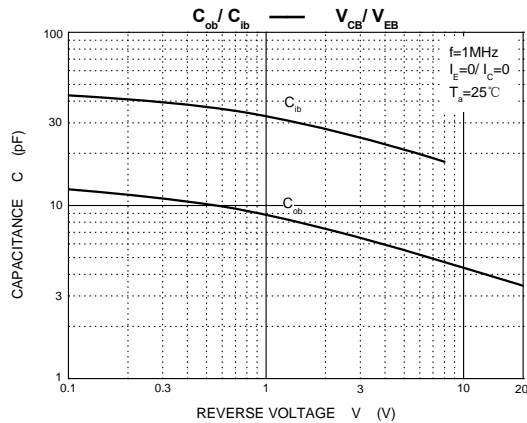
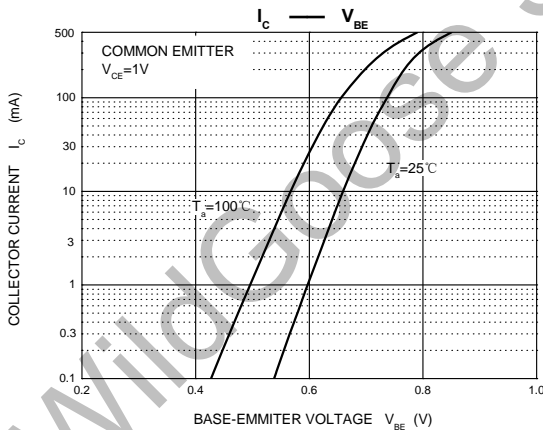
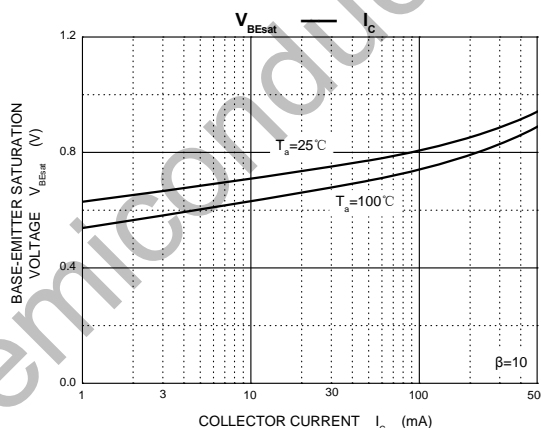
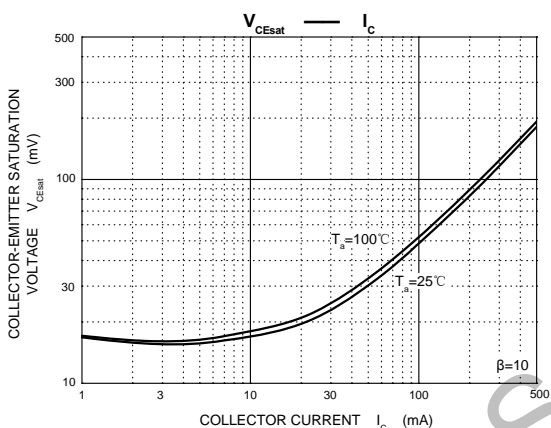
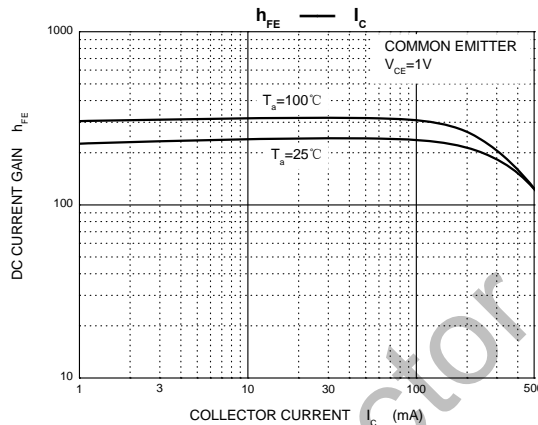
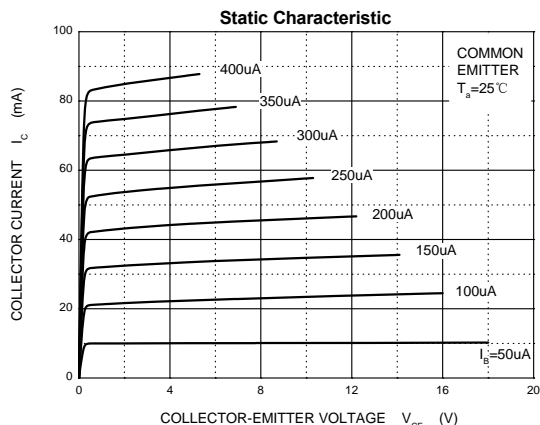
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E = 0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1mA, I_B = 0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100\mu A, I_C = 0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = 40V, I_E = 0$			0.1	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CB} = 20V, I_E =$			0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$			0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE} = 1V, I_C = 50mA$	120		400	
	$h_{FE(2)}$	$V_{CE} = 1V, I_C = 500mA$	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	$f_T$	$V_{CE} = 6V, I_C = 20mA$ $f = 30MHz$	150			MHz

### Classification Of $h_{FE}$

Classification	L	H	J
$h_{FE1}$	120-200	200-350	300-400

\* Pulse Test: Pulse Width=20 $\mu s$ , Duty Cycle $\leq$ 2%

Typical Characteristics



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