

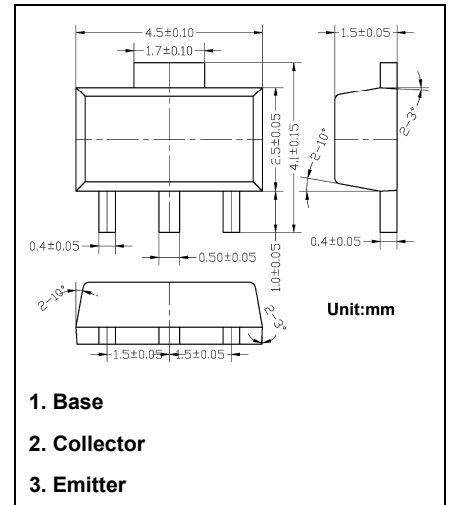
# SOT-89 Plastic-Encapsulate Transistors

## SS8050 NPN Transistors

### Features

- Power Dissipation  
 $P_{CM}$ : 1W ( $T_A = 25^\circ\text{C}$ )  
 : 2W ( $T_C = 25^\circ\text{C}$ )

Marking: Y1



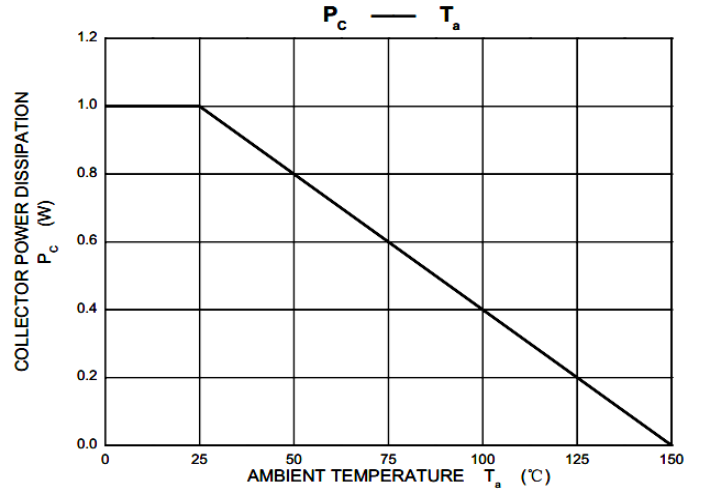
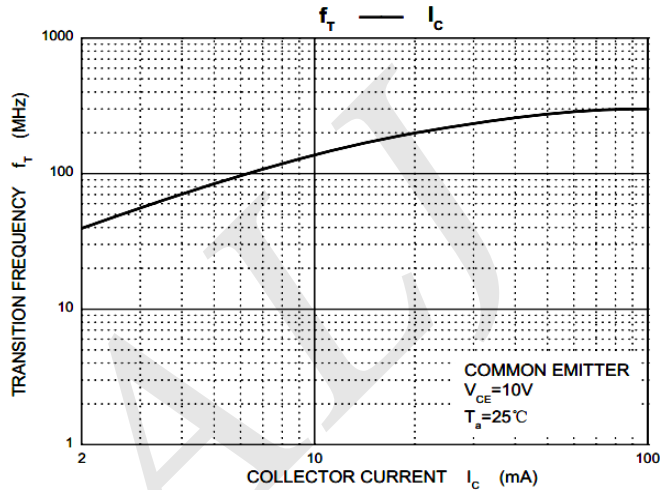
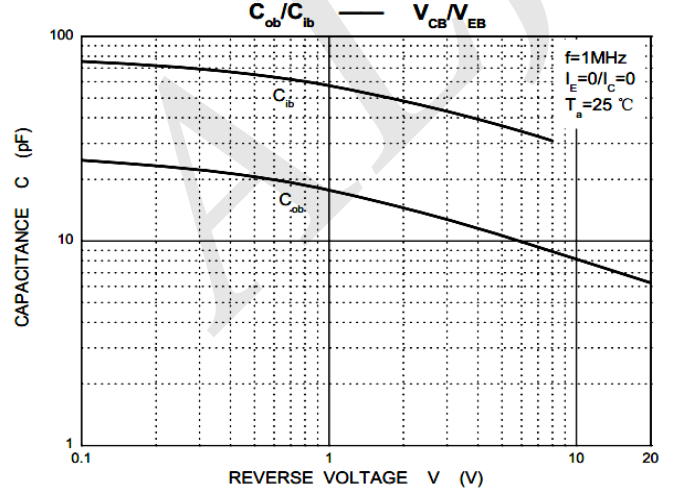
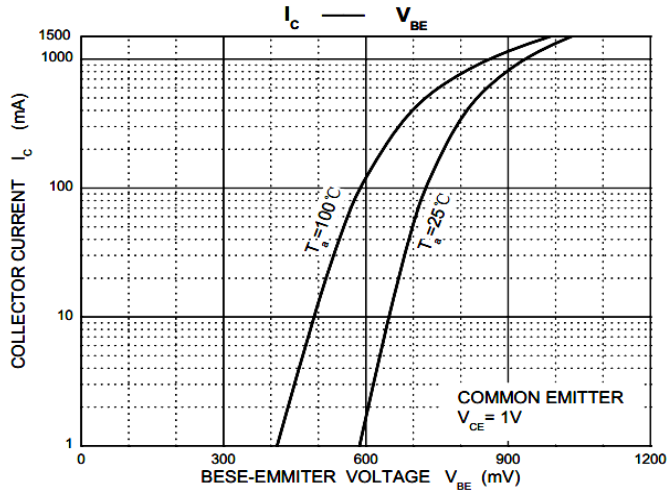
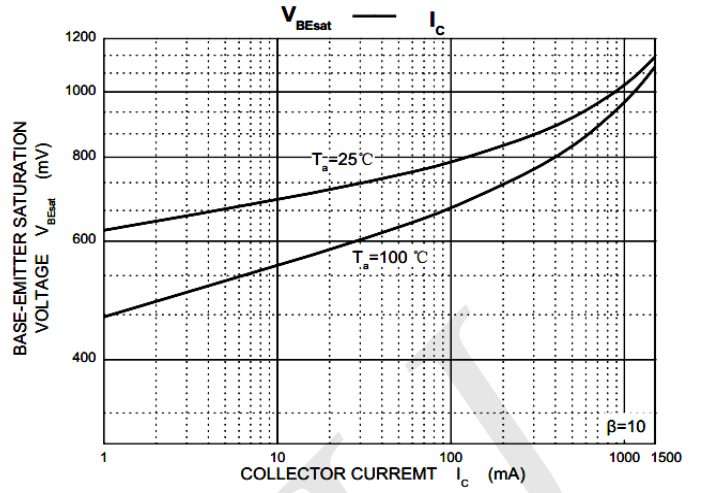
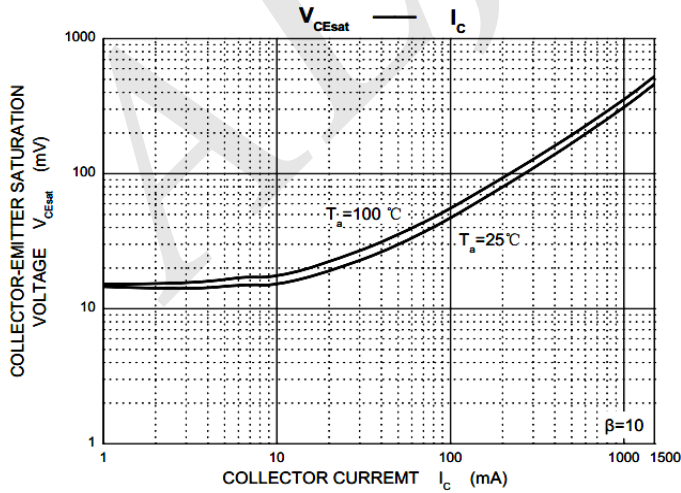
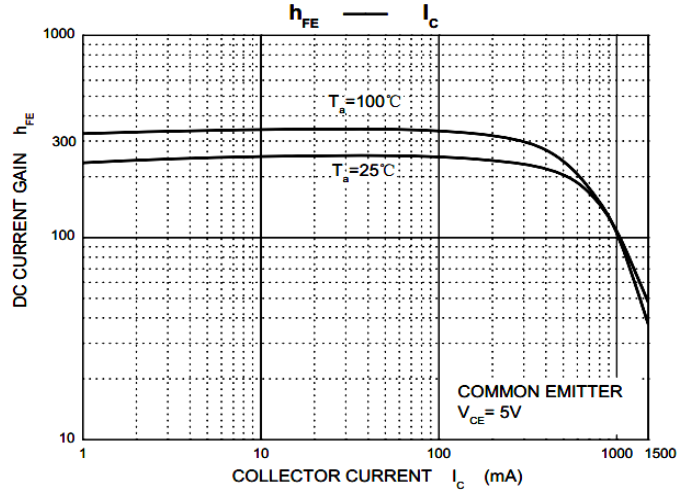
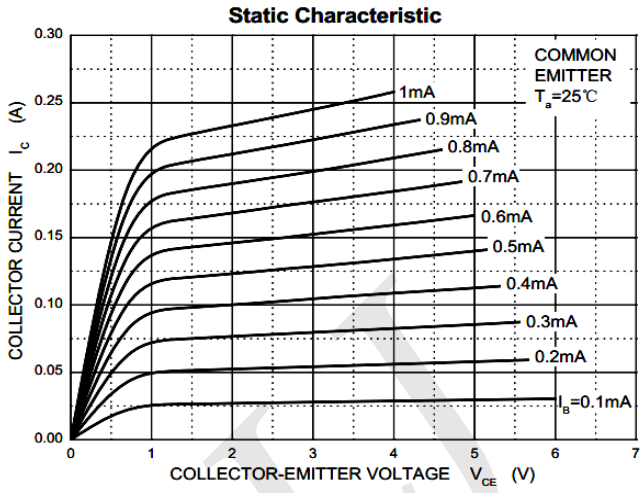
### Maximum Ratings ( $T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector Base Voltage	40	V
$V_{CEO}$	Collector Emitter Voltage	25	V
$V_{EBO}$	Emitter Base Voltage	5	V
$I_c$	Collector Current	1.5	A
$T_j$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

### Electrical Characteristics ( $T_a=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_c = 100\mu\text{A}, I_E = 0$	40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_c = 0.1\text{mA}, I_B = 0$	25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = 100\mu\text{A}, I_c = 0$	5			V
$I_{CBO}$	Collector cut-off current	$V_{CB} = 40\text{V}, I_E = 0$			100	nA
$I_{CEO}$	Collector cut-off current	$V_{CE} = 20\text{V}, I_B = 0$			100	nA
$I_{EBO}$	Emitter cut-off current	$V_{EB} = 5\text{V}, I_c = 0$			100	nA
$h_{FE(1)}$	DC current gain	$V_{CE} = 1\text{V}, I_c = 100\text{mA}$	200		350	
$h_{FE(2)}$		$V_{CE} = 1\text{V}, I_c = 800\text{mA}$	40			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_c = 800\text{mA}, I_B = 80\text{mA}$			0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_c = 800\text{mA}, I_B = 80\text{mA}$			1.2	V
$V_{BE}$	Base-emitter voltage	$V_{CE} = 1\text{V}, I_c = 10\text{mA}$			1	V
$f_T$	Transition frequency	$V_{CE}=10\text{V}, I_c=50\text{mA}, f=30\text{MHz}$	100			MHz

# Typical Characteristics



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