



Micro Commercial Components

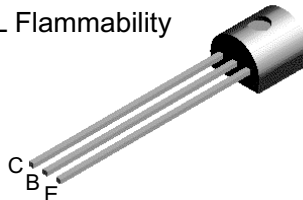
Micro Commercial Components  
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**SS8050**  
**SS8050-C**  
**SS8050-D**

**NPN Silicon**  
**Transistors**

**Features**

- TO-92 Plastic-Encapsulate Transistors
- Capable of 1.0Watts( $T_{amb}=25^{\circ}C$ ) of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range:  $-55^{\circ}C$  to  $+150^{\circ}C$
- Marking : SS8050
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0



**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Symbol	Parameter	Min	Max	Units
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**OFF CHARACTERISTICS**

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A_{dc}$ , $I_E=0$ )	40	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=0.1mA_{dc}$ , $I_B=0$ )	25	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=100\mu A_{dc}$ , $I_C=0$ )	5.0	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=40V_{dc}$ , $I_E=0$ )	---	0.1	$\mu A_{dc}$
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=20V_{dc}$ , $I_B=0$ )	---	0.1	$\mu A_{dc}$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0V_{dc}$ , $I_C=0$ )	---	0.1	$\mu A_{dc}$

**ON CHARACTERISTICS**

$h_{FE(1)}$	DC Current Gain ( $I_C=100mA_{dc}$ , $V_{CE}=1.0V_{dc}$ )	85	400	---
$h_{FE(2)}$	DC Current Gain ( $I_C=800mA_{dc}$ , $V_{CE}=1.0V_{dc}$ )	40	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=800mA_{dc}$ , $I_B=80mA_{dc}$ )	---	0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=800mA_{dc}$ , $I_B=80mA_{dc}$ )	---	1.2	Vdc
$V_{EB}$	Base- Emitter Voltage ( $I_E=1.5A_{dc}$ )	---	1.6	Vdc

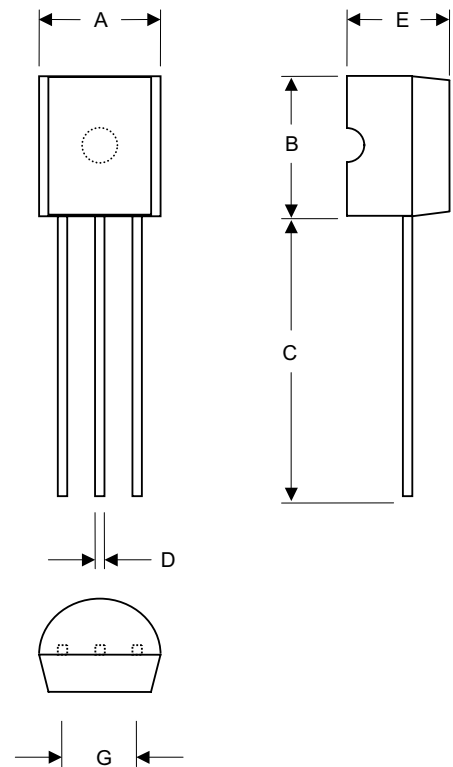
**SMALL-SIGNAL CHARACTERISTICS**

$f_T$	Transistor Frequency ( $I_C=50mA_{dc}$ , $V_{CE}=10V_{dc}$ , $f=30MHz$ )	190	---	MHz
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**CLASSIFICATION OF  $h_{FE(1)}$**

Rank	C	D
Range	120-200	160-300

**TO-92**



**DIMENSIONS**

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



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