

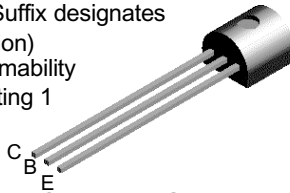


Micro Commercial Components

Micro Commercial Components  
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## 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 : SS8550
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A$ , $I_E=0$ )	40	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=0.1mA$ , $I_E=0$ )	25	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E=100\mu A$ , $I_C=0$ )	6.0	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=40V$ , $I_E=0$ )	---	0.1	$\mu A$
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=20V$ , $I_B=0$ )	---	0.1	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0V$ , $I_C=0$ )	---	0.1	$\mu A$

## ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ( $I_C=100mA$ , $V_{CE}=1.0V$ )	85	400	---
$h_{FE(2)}$	DC Current Gain ( $I_C=800mA$ , $V_{CE}=1.0V$ )	40	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=800mA$ , $I_B=80mA$ )	---	0.8	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=800mA$ , $I_B=80mA$ )	---	1.2	Vdc
$V_{EB}$	Base- Emitter Voltage ( $I_E=1.5A$ )	---	1.8	Vdc

## SMALL-SIGNAL CHARACTERISTICS

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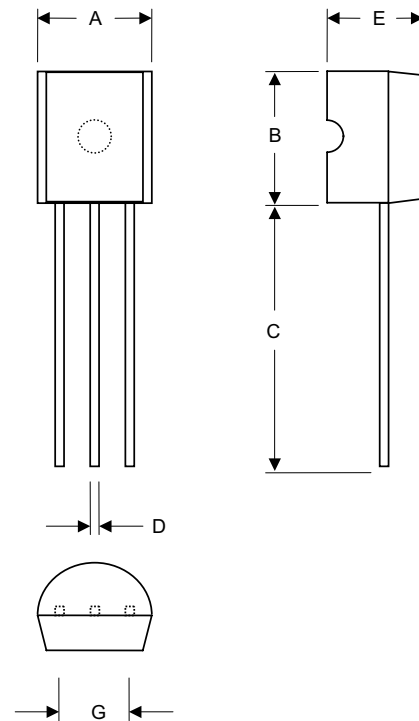
## CLASSIFICATION OF $h_{FE(1)}$

Rank	C	D
Range	120-200	160-300

**SS8550**  
**SS8550-C**  
**SS8550-D**

**PNP Silicon**  
**Transistors**

TO-92



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	

[www.mccsemi.com](http://www.mccsemi.com)



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## Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel;2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

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