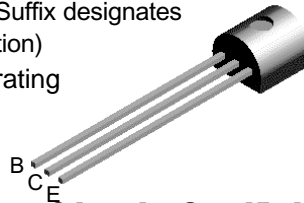


8050SS-C
8050SS-D

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 : 8050SS
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



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	μA_{dc}
I_{CEO}	Collector Cutoff Current ($V_{CE}=20V_{dc}$, $I_B=0$)	---	0.1	μA_{dc}
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0V_{dc}$, $I_C=0$)	---	0.1	μA_{dc}

ON CHARACTERISTICS

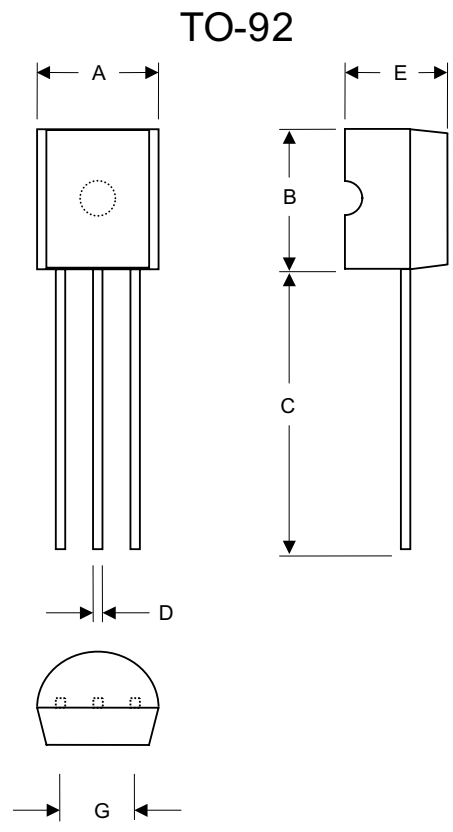
$h_{FE(1)}$	DC Current Gain ($I_C=100mA_{dc}$, $V_{CE}=1.0V_{dc}$)	120	300	---
$h_{FE(2)}$	DC Current Gain ($I_C=800mA_{dc}$, $V_{CE}=1.0V_{dc}$)	40	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=800mA_{dc}$, $I_B=80mA_{dc}$)	---	0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=800mA_{dc}$, $I_B=80mA_{dc}$)	---	1.2	Vdc
V_{BE}	Base- Emitter Voltage ($I_C=10mA_{dc}$, $V_{CE}=1V$)	---	1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency ($I_C=50mA_{dc}$, $V_{CE}=10V_{dc}$, $f=30MHz$)	100	---	MHz
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CLASSIFICATION OF $h_{FE(1)}$

Rank	C	D
Range	120-200	160-300



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	.096	.104	2.44	2.64	



TM

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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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