



Micro Commercial Components



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MMSS8550W-L
MMSS8550W-H
MMSS8550W-J

Features

- Halogen free available upon request by adding suffix "-HF"
- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- Marking: Y2
- Capable of 200mW of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C

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 ($I_C = -100\mu A$, $I_E = 0$)	-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 ($I_E = -100\mu A$, $I_C = 0$)	-5.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = -40V$, $I_E = 0$)	---	-0.1	μA
I_{CEO}	Collector Cutoff Current ($V_{CE} = -20V$, $I_B = 0$)	---	-0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -5.0V$, $I_C = 0$)	---	-0.1	μA

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C = -100mA$, $V_{CE} = -1.0V$)	120	400	---
$h_{FE(2)}$	DC Current Gain ($I_C = -800mA$, $V_{CE} = -1.0V$)	40	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -800mA$, $I_B = -80mA$)	---	-0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C = -800mA$, $I_B = -80mA$)	---	-1.2	Vdc
V_{BE}	Base-Emitter Voltage ($I_C = -10mA$, $V_{CE} = -1V$)	---	-1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

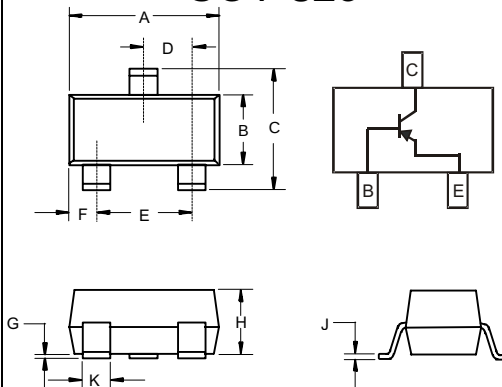
f_T	Transistor Frequency ($I_C = -50mA$, $V_{CE} = -10V$, $f = 30MHz$)	100	---	MHz
C_{ob}	Collector output capacitance ($I_C = 0$, $V_{CB} = -10V$, $f = 1MHz$)	---	20	pF

CLASSIFICATION OF $h_{FE(1)}$

Rank	L	H	J
Range	120-200	200-350	300-400

PNP Silicon Plastic-Encapsulate Transistor

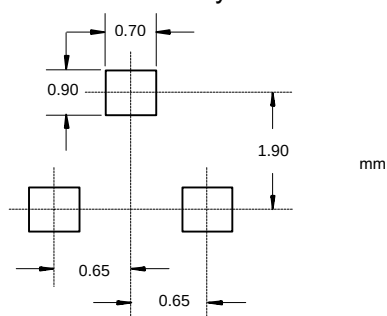
SOT-323



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	0.30	0.40	
G	.000	.004	0.00	0.10	
H	.035	.039	0.90	1.00	
J	.004	.010	0.10	0.25	
K	.006	.016	0.15	0.40	

Suggested Solder Pad Layout



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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