

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMSS8050-L MMSS8050-H

Features

- SOT-23 Plastic-Encapsulate Transistors
- Capable of 0.3Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 1.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: Y1
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARAC	OFF CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage 40 (b=100µAdc, l∈=0)				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=0.1mAdc, l _B =0)	25		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (上=100µAdc, l _C =0)	5.0		Vdc	
Сво	Collector Cutoff Current (V _{CB} =40Vdc, _E =0)		0.1	μAdc	
PEO	Collector Cutoff Current (V _{CE} =20Vdc, _b =0)		0.1	μAdc	
l _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, ├=0)		0.1	μAdc	

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain	120 350		
	(b=100mAdc, V _{CE} =1.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
	(b=800mAdc, V _{CE} =1.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	0.5 Vdc		
. ,	(b=800mAdc, l₀=80mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	1.2 Vdc		
	(b=800mAdc, l _B =80mAdc)			
V _{EB}	Base- Emitter Voltage		1.6	Vdc
	(I _E =1.5Adc)			

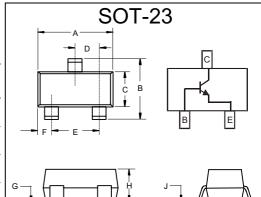
SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequency	100	 MHz
	(ξ =50mAdc, V_{CE} =10Vdc, f=30MHz)		

CLASSIFICATION OF HEE (1)

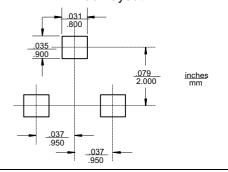
0=10011101101101101101101			
Rank	L	Н	
Range	120-200	200-350	

NPN Silicon Plastic-Encapsulate Transistor



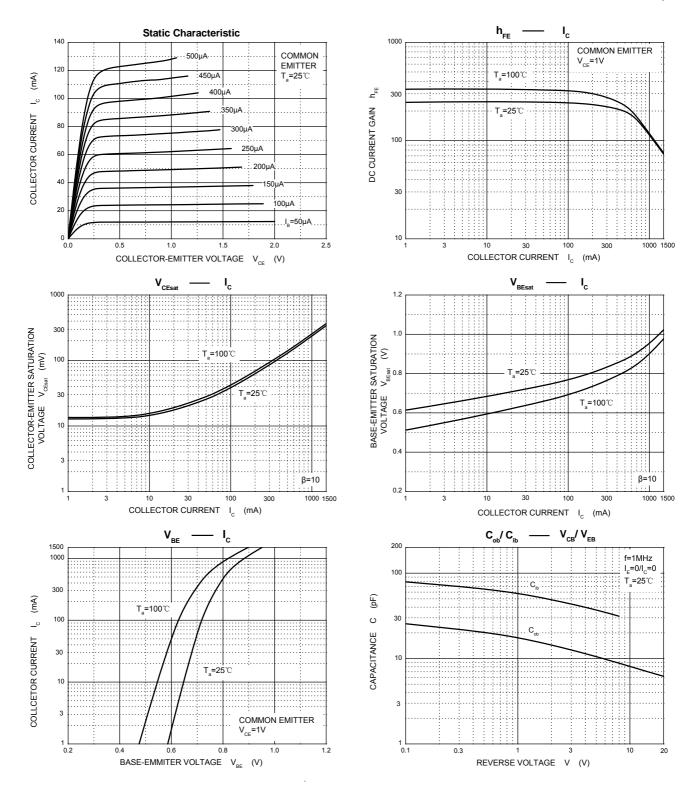
DIMENSIONS					
DIM	INCHES MIN MAX		MM MIN MAX		NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
Ŋ	.0005	.0039	.013	.100	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



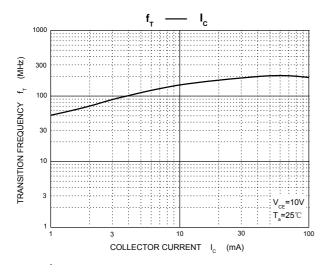
MMSS8050

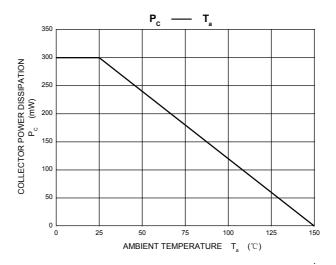






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Ordering Information:

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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