

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	ETERISTICS			
V _{(BR)CBO}	Collector-Base Breakdown Voltage (├=100µAdc, ا∈=0)	40		Vdc
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (b=0.1mAdc, l _B =0)	25		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage ([=100µAdc, _C =0)	5.0		Vdc
Сво	Collector Cutoff Current (V _{CB} =40Vdc, ξ =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, _b =0)		0.1	μAdc

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain	120	350	
	(⊱=100mAdc, V _{CE} =1.0Vdc)			
h _{FE(2)}	DC Current Gain	40		
	(⊱=800mAdc, V _{CE} =1.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.5	Vdc
	(⊱=800mAdc, l₃=80mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
. ,	(Ե=800mAdc, I _B =80mAdc)			
V_{EB}	Base- Emitter Voltage		1.6	Vdc
	(I _E =1.5Adc)			

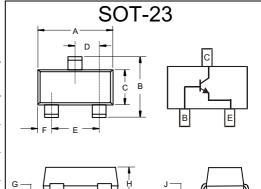
SMALL-SIGNAL CHARACTERISTICS

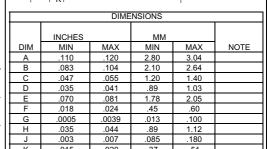
f_T	Transistor Frequency	100	 MHz
	$(l_c=50 \text{mAdc}, V_{ce}=10 \text{Vdc}, f=30 \text{MHz})$		

CLASSIFICATION OF HEED

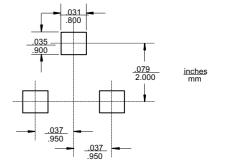
Rank	L	Н
Range	120-200	200-350

NPN Silicon Plastic-Encapsulate Transistor



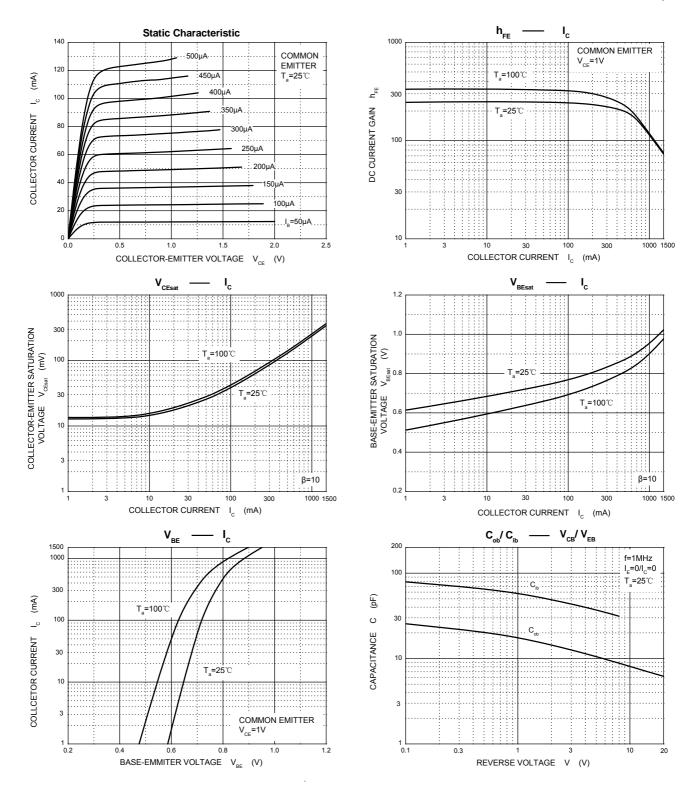


Suggested Solder Pad Layout



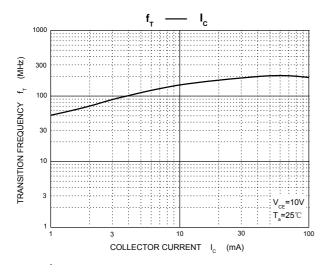
MMSS8050

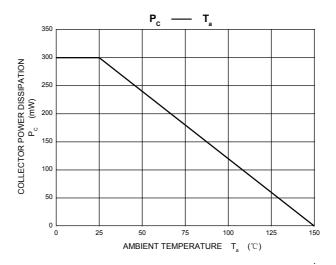






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Ordering Information:

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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