

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MS8050-L MS8050-H

Features

- SOT-23 Plastic-Encapsulate Transistors
- Capable of 0.2Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.8A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking Code: Y11
- 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 CHARACTERISTICS				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (⊱=100µAdc,	40		Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=1mAdc, b=0)	25		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (<u>L</u> =100µAdc, <u>L</u> =0)	6.0		Vdc
Сво	Collector Cutoff Current $(V_{CB}=35Vdc, \models=0)$		0.1	μAdc
ρEO	Collector Cutoff Current (V _{CF} =20Vdc, k=0)		0.1	μAdc

ON CHARACTERISTICS

ON OTHER COLLECTION				
h _{FE(1)}	DC Current Gain	45		
	(b=5mAdc, Vc=1.0Vdc)			
h _{FE(2)}	DC Current Gain	80	300	
	(b=100mAdc, V _{CE} =1.0Vdc)			
h _{FE(3)}	DC Current Gain	40		
V-7	(b=800mAdc, Vce=1.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.5	Vdc
()	(l _c =800mAdc, l _B =80mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
==(500)	(k=800mAdc, k=80mAdc)			

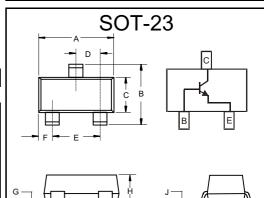
SMALL-SIGNAL CHARACTERISTICS

f _T	Transistor Frequency	150	 MHz
	$(I_c=20\text{mAdc}, V_{cr}=6.0\text{Vdc}, f=30\text{MHz})$		

CLASSIFICATION OF HE (2)

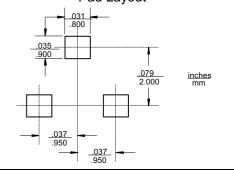
Rank	L	Н	
Range	80-200	200-300	

NPN Silicon Plastic-Encapsulate Transistor



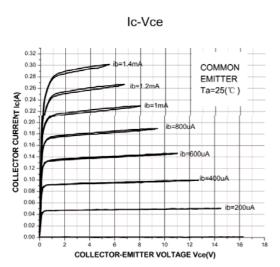
	DIMENSIONS				
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

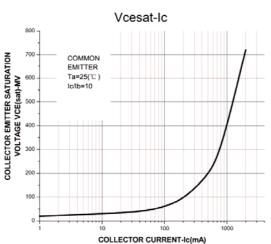
Suggested Solder Pad Layout

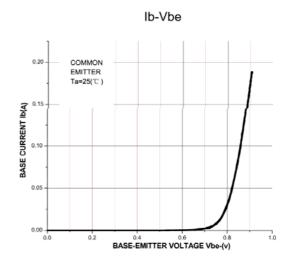


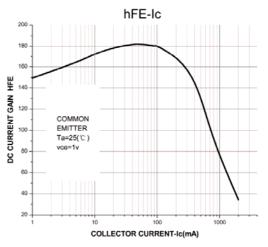


Typical Characteristics MS8050-L MS8050-H











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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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