



**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

# 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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (b=100uAdc, l∈=0)	40		Vdc	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=1mAdc, b=0)	25		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( = 100uAdc, l <sub>c</sub> =0)	6.0		Vdc	
Сво	Collector Cutoff Current (V <sub>CB</sub> =35Vdc, ½=0)		0.1	uAdc	
PEO	Collector Cutoff Current (V <sub>CF</sub> =20Vdc, k=0)		0.1	uAdc	

# ON CHARACTERISTICS

ON CHARACTERISTICS				
h <sub>FE(1)</sub>	DC Current Gain	45	45	
	(⊱=5mAdc, V <sub>CE</sub> =1.0Vdc)			
h <sub>FE(2)</sub>	DC Current Gain	80	300	
. ,	(b=100mAdc, V <sub>cE</sub> =1.0Vdc)			
h <sub>FE(3)</sub>	DC Current Gain	40		
. ,	(b=800mAdc, V <sub>CE</sub> =1.0Vdc)			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.5	Vdc
, ,,,	( $b=800$ mAdc, $b=80$ mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
(==,	(L=800mAdc, L=80mAdc)			

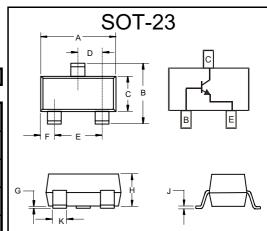
### **SMALL-SIGNAL CHARACTERISTICS**

f⊤	Transistor Frequency	150	 MHz
	( $l_c$ =20mAdc, $V_{CE}$ =6.0Vdc, f=30MHz)		

### CLASSIFICATION OF HE (2)

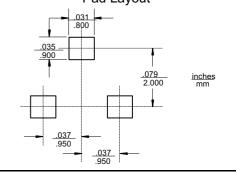
6216611611161161 11t(2)			
Rank		Н	
Range	80-200	200-300	

# NPN Silicon Plastic-Encapsulate Transistor



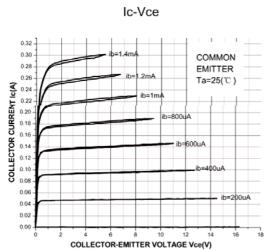
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

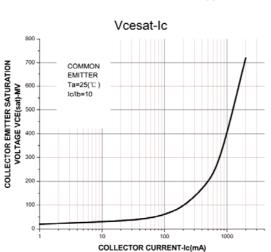
## Suggested Solder Pad Layout

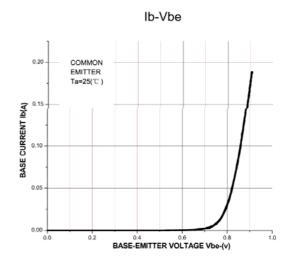


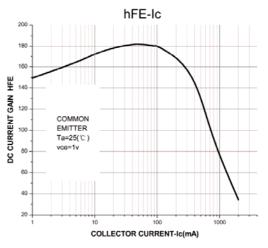


# Typical Characteristics MS8050-L MS8050-H











#### **Micro Commercial Components**

### Ordering Information:

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

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