



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMS8050-L MMS8050-H

Features

- SOT-23 Plastic-Encapsulate Transistors
- Capable of 0.3Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking Code: J3Y
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARAC	OFF CHARACTERISTICS			
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (b=100uAdc, l∈=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 (=100uAdc, l _c =0)	5.0		Vdc
Сво	Collector Cutoff Current (V _{CB} =40Vdc, _{\xi} =0)		0.1	uAdc
PEO	Collector Cutoff Current (V _{CE} =20Vdc, _b =0)		0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, $\[\] \[\] \[\] \[\] \$		0.1	uAdc

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain	120	350	
	(b=50mAdc, VcE=1.0Vdc)			
h _{FE(2)}	DC Current Gain	50		
. ,	(b=500mAdc, V _{cE} =1.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	0.6 Vdc		
	(l _c =500mAdc, l _B =50mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	Itage 1.2 Vdc		Vdc
	(l _c =500mAdc, l _B =50mAdc)			
V_{EB}	Base- Emitter Voltage		1.4	Vdc
	(I _E =100mAdc)			

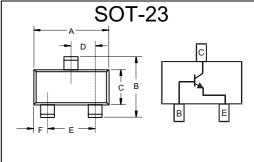
SMALL-SIGNAL CHARACTERISTICS

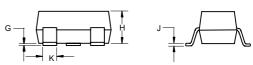
f _T	Transistor Frequency	150	 MHz
	(ξ =20mAdc, V_{CE} =6.0Vdc, f=30MHz)		

CLASSIFICATION OF H

Rank	L	Н	
Range	120-200	200-350	

NPN Silicon Plastic-Encapsulate Transistor

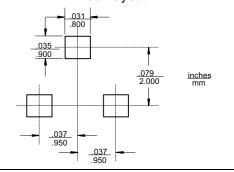




DIMENSIONS

	INCHES		М	М	
DIM	MIN	MAX	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





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Ordering Information:

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

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