

Micro Commercial Components

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Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMS9018-L MMS9018-H

Features

- SOT-23 Plastic-Encapsulate Transistors
- Capable of 0.2Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.05A
- Collector-base Voltage 25V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: J8
- 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)	25		Vdc	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (b=0.1mAdc, l _B =0)	18		Vdc	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (½=100uAdc, l _C =0)	4.0		Vdc	
Сво	Collector Cutoff Current (V _{CB} =20Vdc, ξ =0)		0.1	uAdc	
PEO	Collector Cutoff Current (V _{CE} =15Vdc, _b =0)		0.1	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =3.0Vdc, ξ =0)		0.1	uAdc	

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain	70	190	
	(lc=1.0mAdc, V _{CE} =5.0Vdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.5	Vdc
, ,	(b=10mAdc, l₀=1.0mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.4	Vdc
` ′	(b=100mAdc, b=1.0mAdc)			

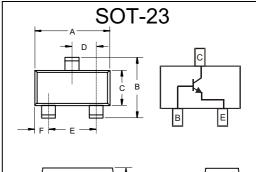
SMALL-SIGNAL CHARACTERISTICS

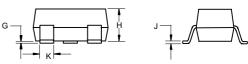
f _T	Transistor Frequency	600	 MHz
	(l_c =5.0mAdc, V_{CE} =5.0Vdc, f=400MHz)		

CLASSIFICATION OF HFE

Rank	L	Н
Range	70~105	105~190

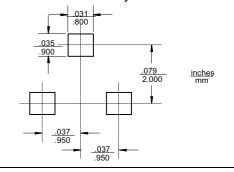
NPN Silicon Plastic-Encapsulate Transistor





DIMENSIONS					
	INCHES		MM		
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	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
Κ	.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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