Micro Commercial Components

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MMBT5401

PNP Plastic Encapsulate Transistor

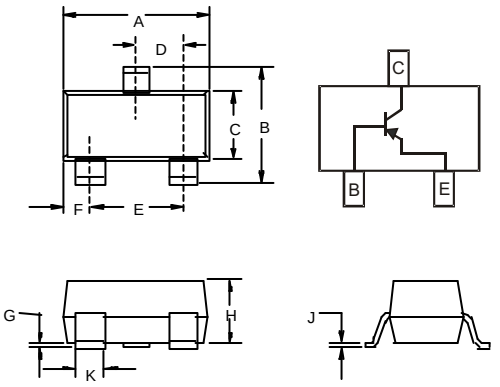
Features

- Collector Current: I_{CM}=0.6A
- Collector-Base Voltage: $V_{(BR)CBO}$=160V
- Operating And Storage Temperatures –55°C to 150°C
- Capable of 0.3Watts of Power Dissipation
- Marking: 2L
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Electrical Characteristics @ 25°C Unless Otherwise Specified

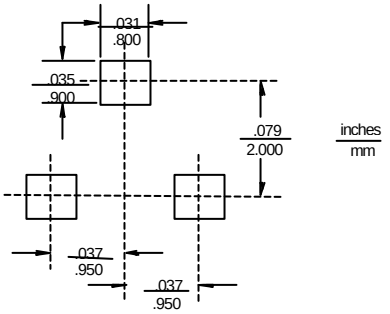
Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I_C=1.0mAdc, I_B=0)	150	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I_C=100uAdc, I_E=0)	160	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I_E=10uAdc, I_C=0)	5.0	---	Vdc
I_{CBO}	Collector Cutoff Current (V_{CB}=120Vdc, I_E=0)	---	0.1	uAdc
I_{EBO}	Emitter Cutoff Current (V_{EB}=4.0Vdc, I_C=0)	---	0.1	uAdc
ON CHARACTERISTICS				
h_{FE-1}	DC Current Gain (V_{CE}=5.0Vdc, I_C=1.0mAdc)	80	---	---
h_{FE-2}	DC Current Gain (V_{CE}=5.0Vdc, I_C=10mAdc)	100	200	---
h_{FE-3}	DC Current Gain (V_{CE}=5.0Vdc, I_C=50mAdc)	50	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=50mAdc, I_B=5.0mAdc)	---	0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I_C=50mAdc,I_B=5.0mAdc)	---	1.0	Vdc
SMALL-SIGNAL CHARACTERISTICS				
f_T	Current Gain-Bandwidth Product (I_C=10mAdc, V_{CE}=5.0Vdc, f=30MHz)	100	---	MHz

SOT-23



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.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	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



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