

**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### **Features**

- Collector Current: I<sub>CM</sub>=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
- 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
<b>OFF CHARA</b>	CTERISTICS			•
V <sub>(BR)CEO</sub>	Collector -Emitter Breakdown Voltage (I <sub>c</sub> =1.0mAdc, I <sub>B</sub> =0)	150		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (l <sub>c</sub> =100uAdc, l <sub>E</sub> =0)	160		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (l <sub>E</sub> =10uAdc, l <sub>c</sub> =0)	5.0		Vdc
I <sub>сво</sub>	Collector Cutoff Current ( $V_{CB}$ =120Vdc, $I_{E}$ =0)		0.1	uAdc
Ево	Emitter Cutoff Current (V <sub>EB</sub> =4.0Vdc, I <sub>C</sub> =0)		0.1	uAdc
ON CHARAC	TERISTICS			
h <sub>FE-1</sub>	DC Current Gain (V <sub>CE</sub> =5.0Vdc, ⊱=1.0mAdc)	80		
h <sub>FE-2</sub>	DC Current Gain (V <sub>cE</sub> =5.0Vdc, է=10mAdc)	100	200	
h <sub>FE-3</sub>	DC Current Gain (V <sub>cE</sub> =5.0Vdc, <sub>b</sub> =50mAdc)	50		
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>c</sub> =50mAdc, I <sub>B</sub> =5.0mAdc)		0.5	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (t <sub>c</sub> =50mAdc,t <sub>s</sub> =5.0mAdc)		1.0	Vdc
SMALL-SIG	NAL CHARACTERISTICS			
f <sub>⊤</sub>	Current Gain-Bandwidth Product (L=10mAdc, V <sub>CE</sub> =5.0Vdc, f=30MHz)	100		MHz

#### **PNP** Plastic **Encapsulate** Transistor SOT-23 р DIMENSIONS INCHE NOTE DIM MIN MAX MIN MAX .120 .110 3.04 Α 2.80 В .083 .104 2.10 2.64 .047 С .055 1.20 1.40 D .035 .041 .89 1.03 .081 1.78 Ε .070 2.05 F .018 .024 .45 .60 G .0005 .0039 .013 .100 .035 .003 н .044 .89 1.12

**MMBT5401** 

.020 .37 Suggested Solder

.085

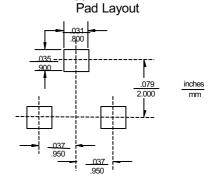
.180

.51

.007

J

.015

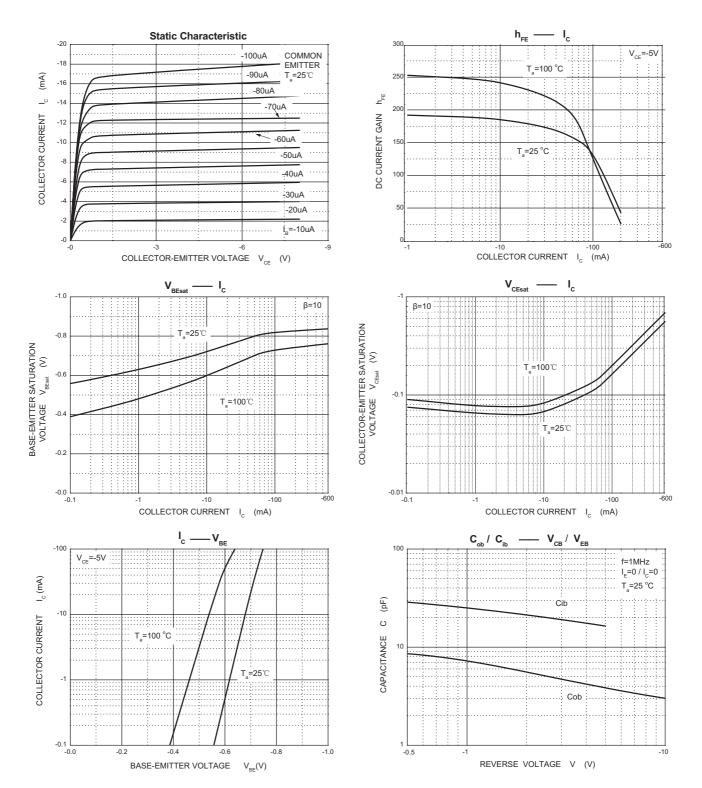


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# **MMBT5401**

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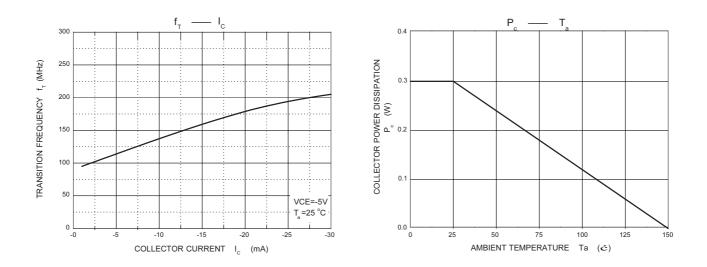
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M.C.C.



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### **Ordering Information :**

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

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