

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# **Features**

- Capable of 0.35Watts of Power Dissipation.
- Collector-current: 1.0A
- Collector-base Voltage: -50V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHAR	OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mAdc, I <sub>B</sub> =0)	-50		Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>C</sub> =-100µAdc, I <sub>E</sub> =0)	-60		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I <sub>E</sub> =-100µAdc, I <sub>C</sub> =0)	-6		Vdc	
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> = -60Vdc, I <sub>E</sub> =0)		-0.1	μAdc	
I <sub>EBO</sub>	Emitter Cutoff Current $(V_{EB}=-6.0Vdc, I_{C}=0)$		-0.1	μAdc	

#### **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current Gain (I <sub>C</sub> = -0.1Adc, V <sub>CE</sub> =-2.0Vdc) (I <sub>C</sub> = -1.0Adc, V <sub>CE</sub> =-2.0Vdc)	135 81	600	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> = -1.0Adc, I <sub>B</sub> = -50mAdc)		-0.3	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I <sub>C</sub> = -1.0Adc, I <sub>B</sub> = -50mAdc)		-1.2	Vdc
V <sub>BE</sub>	Base-Emitter Voltage (I <sub>C</sub> = -0.05Adc, V <sub>CE</sub> = -20Vdc)	-0.6	-0.7	Vdc

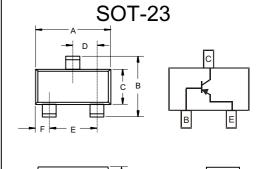
#### SMALL-SIGNAL CHARACTERISTICS

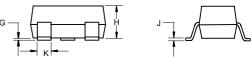
f <sub>T</sub>	Transistor Frequency	70		MHz
	$(I_C=-0.1Adc, V_{CE}=-2.0Vdcz)$			
Cob	Collector Output Capacitance (V <sub>CB</sub> =-10Vdc, I <sub>E</sub> =0, f=1MHz)	25(typ.)		pF

### CLASSIFICATION OF HEED

Rank	L	K	U
Range	135-270	200-400	300-600

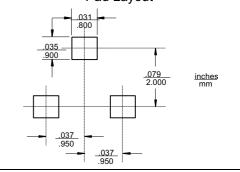
# PNP Silicon Plastic-Encapsulate Transistor



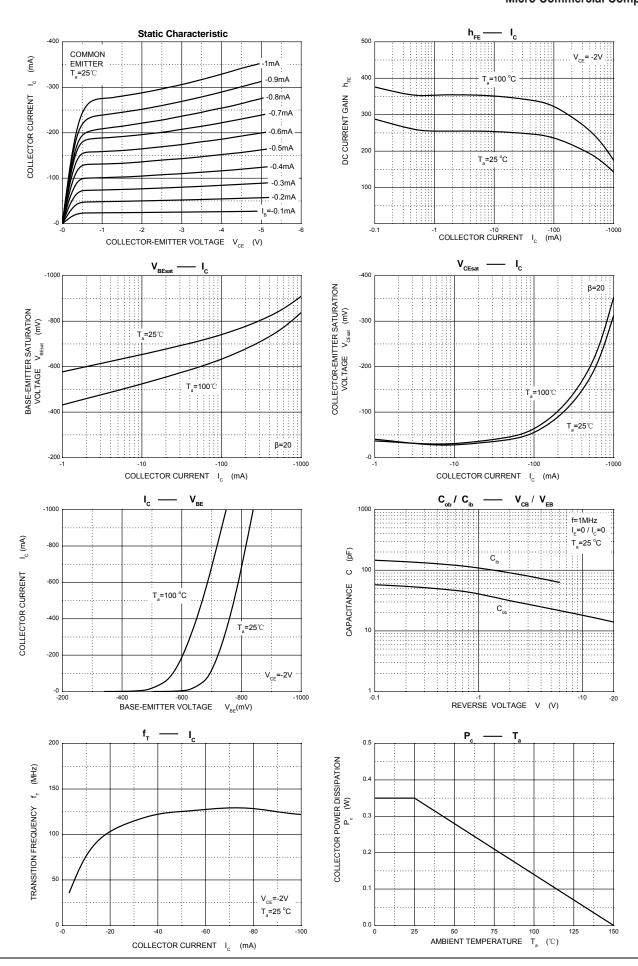


DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	015	020	37	51	

## Suggested Solder Pad Layout









## **Ordering Information:**

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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