

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# **Features**

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Capable of 1.0Watts of Power Dissipation.
- Collector-current 3.0A
- Collector-base Voltage 60V
- Operating and storage junction temperature range:-55°C to +150°C
- 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				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $\xi$ =1.0mAdc, $\xi$ =0)	60		Vdc	
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (├=100uAdc, I=0)	60		Vdc	
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =100uAdc,I <sub>C</sub> =0)	7		Vdc	
Ісво	Collector Cutoff Current (V <sub>CB</sub> =60Vdc, I <sub>E</sub> =0Adc)		10	uAdc	
l <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =7.0Vdc, I <sub>C</sub> =0Adc)		10	uAdc	

## **ON CHARACTERISTICS**

h <sub>FE(1)</sub>	DC Current Gain*			
	(I <sub>C</sub> =600mAdc, V <sub>CE</sub> =2.0Vdc)	100	400	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
	(l <sub>c</sub> =1500mAdc, l <sub>B</sub> =150mAdc)		0.25	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (L=1500mAdc, L=150mAdc)		1.2	Vdc

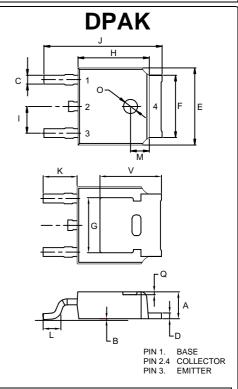
## **SMALL-SIGNAL CHARACTERISTICS**

f⊤	Transistor Frequency (b=1500mAdc, V <sub>CE</sub> =5Vdc)	120(Typ)	MHz
С <sub>ОВ</sub>	Collector Output Capacitance (V <sub>CB</sub> =10Vdc, I <sub>E</sub> =0,f=1MHz)	30(typ)	pF

## CLASSIFICATION OF HEED

Rank	M	L	K
Range	100-200	160-320	200-400
ь			<u> </u>

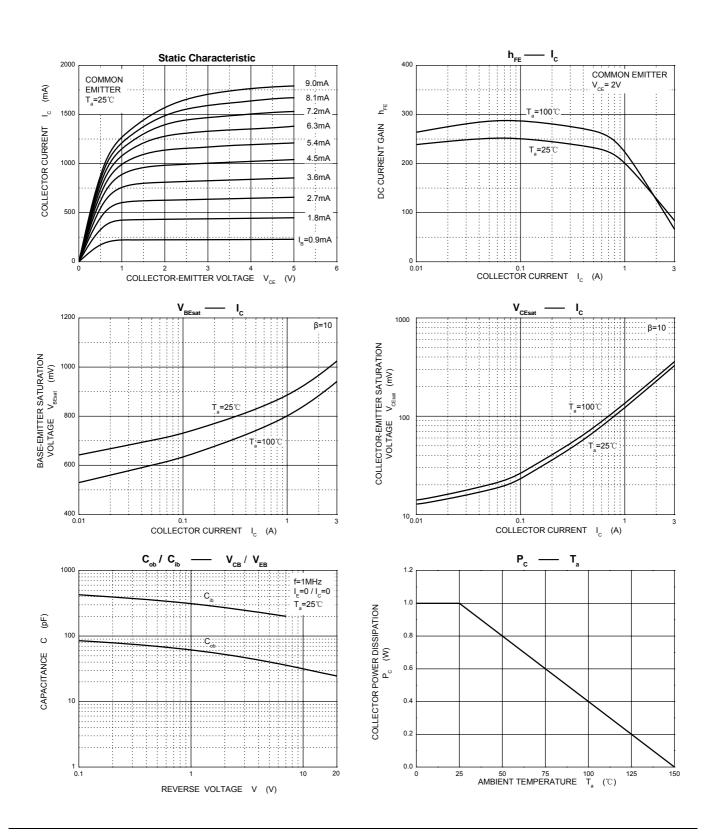
# NPN Silicon Epitaxial Transistor



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
Н	0.236	0.244	6.00	6.20	
- 1	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.9	90	
L	0.055	0.067	1.40	1.70	
М	0.063		1.60		
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.	211	5.35		



# **Typical Characteristics**





## **Ordering Information:**

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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

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