

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

MMBT2907A

Features

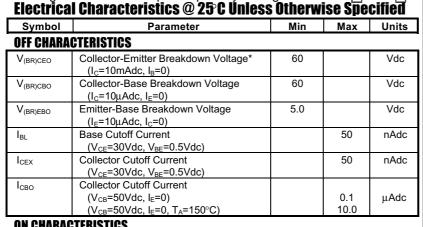
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 350mWatts of Pd, 600mA continuous collector current.
- Operating and Storage Junction Temperatures: -55°C to 150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: 2F

Pin Configuration

Top View Thermal Tesistance, Junction to Ambient: 500°C/W

Halogen free available upon request by adding suffix "-HF"

PNP General Purpose Amplifier



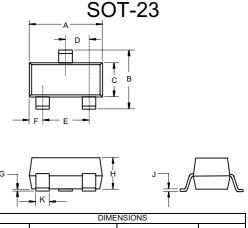
UN CHANACTERISTICS					
h _{FE}	DC Current Gain*				
	(I _C =0.1mAdc, V _{CE} =10Vdc)	75			
	$(I_C=1.0 \text{mAdc}, V_{CE}=10 \text{Vdc})$	100			
	(I _C =10mAdc, V _{CE} =10Vdc)	100			
	(I _C =150mAdc, V _{CE} =10Vdc)	100	300		
	(I _C =500mAdc, V _{CE} =10Vdc)	50			
V _{CE(sat)}	Collector-Emitter Saturation Voltage				
, ,	$(I_C=150 \text{mAdc}, I_B=15 \text{mAdc})$		0.4	Vdc	
	(I _C =500mAdc, I _B =50mAdc)		1.6		
V _{BE(sat)}	Base-Emitter Saturation Voltage				
	(I _C =150mAdc, I _B =15mAdc) 1.3 Vdo		Vdc		
	(I _C =500mAdc, I _B =50mAdc)		2.6		

5MALL-5IGNAL GNARAGI ERIS I IGS					
f⊤	Current Gain-Bandwidth Product (I _C =50mAdc, V _{CE} =20Vdc, f=100MHz)	200		MHz	
C _{cbo}	Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1.0MHz)		8.0	pF	
C _{ibo}	Input Capacitance		30.0	nF	

SWITCHING CHARACTERISTICS

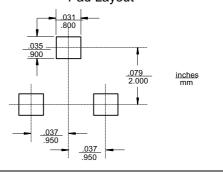
t _d	Delay Time	(V _{CC} =3.0Vdc, I _C =150mAdc,	10	ns
t _r	Rise Time	I _{B1} =15mAdc)	40	ns
t _s	Storage Time	(V _{CC} =3.0Vdc, I _C =150mAdc	80	ns
t _f	Fall Time	$I_{B1} = I_{B2} = 15 \text{mAdc}$	30	ns

*Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%



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

Suggested Solder Pad Layout

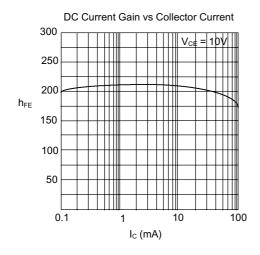


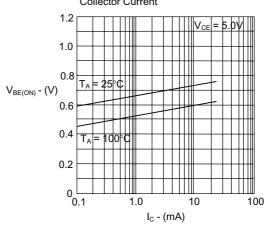
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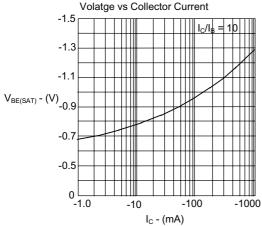
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Base-Emitter ON Voltage vs Collector Current

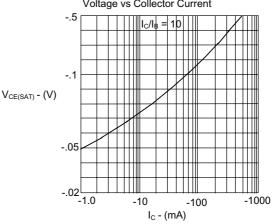




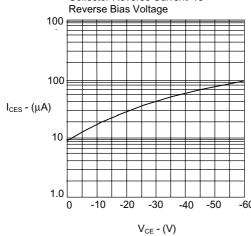
Pulsed Base Saturation
Volatge vs Collector Curren





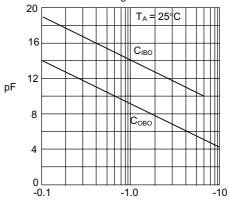


Collector Reverse Current vs



T_A = 25°C

Input and Output Capacitances vs Reverse Bias Voltage

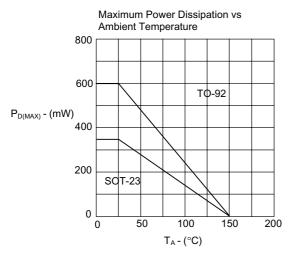


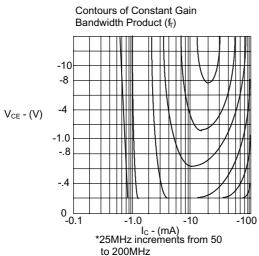
Volts - (V)

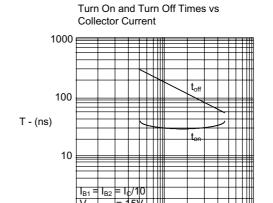
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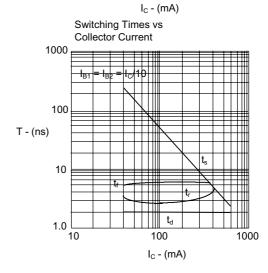
1000







1.0





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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