

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBT2907A

Features

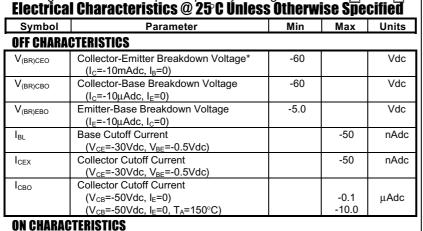
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 350mWatts of Pd, 600mA continuous collector current.
- Operating and Storage Junction Temperatures: -55°C to 150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1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

Pin Configuration

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

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

PNP General Purpose Amplifier



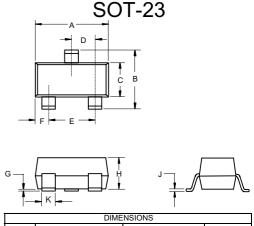
DC Current Gain* (I_C=-0.1mAdc, V_{CE}=-10Vdc) 75 $(I_C=-1.0 \text{mAdc}, V_{CE}=-10 \text{Vdc})$ 100 (I_C=-10mAdc, V_{CE}=-10Vdc) 100 (I_C=-150mAdc, V_{CE}=-10Vdc) 100 300 (I_C=-500mAdc, V_{CE}=-10Vdc) 50 V_{CE(sat)} Collector-Emitter Saturation Voltage (I_C=-150mAdc, I_B=-15mAdc) Vdc -0.4 (I_C=-500mAdc, I_B=-50mAdc) -1.6 $V_{\mathsf{BE}(\mathsf{sat})}$ Base-Emitter Saturation Voltage $(I_C=-150\text{mAdc}, I_B=-15\text{mAdc})$ -1.3 Vdc $(I_C=-500 \text{mAdc}, I_B=-50 \text{mAdc})$ -2.6SULTABLE SULTABLE INVOICE LIVING

SMALL-SIGNAL GHAHAG I LIHS I 163						
f⊤	Current Gain-Bandwidth Product					
	$(I_C=-50 \text{mAdc}, V_{CE}=-20 \text{Vdc}, f=100 \text{MHz})$	200		MHz		
C _{cbo}	Output Capacitance (V _{CB} =-10Vdc, I _E =0, f=1.0MHz)		8.0	pF		
C_{ibo}	Input Capacitance (V _{EB} =-2.0Vdc, I _C =0, f=1.0MHz)		30.0	pF		

SWITCHING CHARACTERISTICS

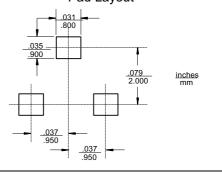
t _d	Delay Time	$(V_{CC}=-3.0Vdc, I_{C}=-150mAdc,$	10	ns
t _r	Rise Time	I _{B1} =-15mAdc)	40	ns
t _s	Storage Time	(V _{CC} =-3.0Vdc, I _C =-150mAdc	80	ns
t _f	Fall Time	$I_{B1} = I_{B2} = -15 \text{mAdc}$	30	ns

^{*}Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%



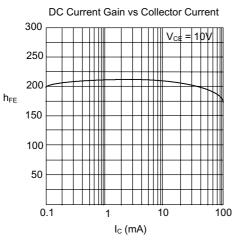
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

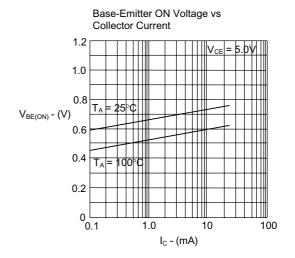
Suggested Solder Pad Layout

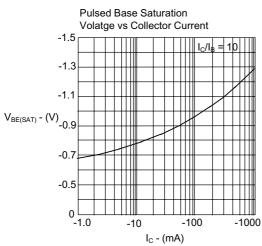


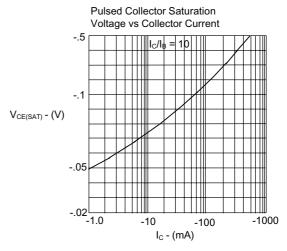


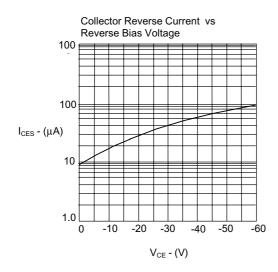
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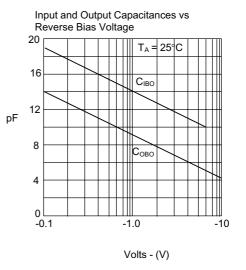












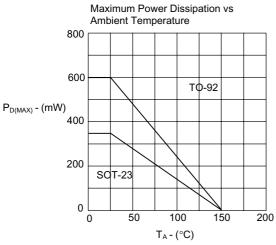
www.mccsemi.com

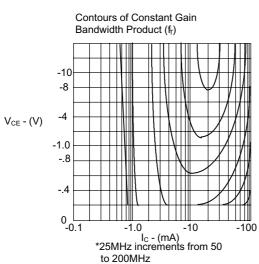
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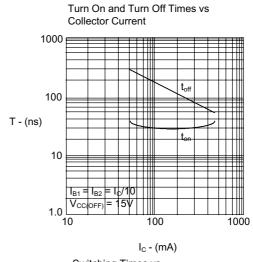
 $T_A = 25^{\circ}C$

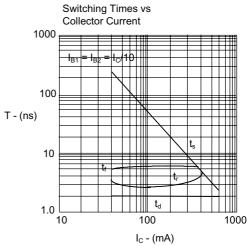


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Ordering Information:

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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