

Micro Commercial Components



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

### **Features**

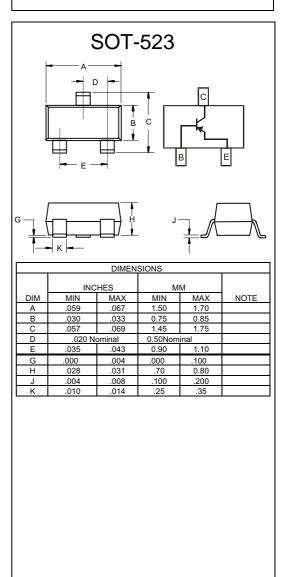
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 150mWatts of Power Dissipation
- Operating and Storage Junction Temperatures -55  $^\circ\!\!\!C$  to 150  $^\circ\!\!\!C$
- Collector Current: -0.6A
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking:2F
- Halogen free available upon request by adding suffix "-HF"

### Electrical Characteristics @ 25°C Unless Otherwise Specified

OFF CHARACT           V(BR)CEO           V(BR)CBO           V(BR)EBO           Icbo           Iebo           ON CHARACT	$\begin{array}{l} \label{eq:constraint} Collector-Emitter Breakdown Voltage* \\ (I_c=-10mAdc, I_B=0) \\ \hline Collector-Base Breakdown Voltage \\ (I_c=-10\muAdc, I_c=0) \\ \hline Emitter-Base Breakdown Voltage \\ (I_E=-10\muAdc, I_c=0) \\ \hline Collector Cut-off Current \\ (V_{CB}=-50Vdc, I_E=0) \\ \hline Emitter Cut-off Current \\ (V_{EB}=-4Vdc, I_C=0) \\ \hline \end{array}$	-60 -60 -5.0	-10 -10	Vdc Vdc Vdc nAdc nAdc
V <sub>(BR)CBO</sub> V <sub>(BR)EBO</sub> I <sub>CBO</sub> I <sub>EBO</sub>	$\begin{array}{c} (I_c=-10 \text{mAdc}, I_B=0) \\ \hline \text{Collector-Base Breakdown Voltage} \\ (I_c=-10 \mu \text{Adc}, I_E=0) \\ \hline \text{Emitter-Base Breakdown Voltage} \\ (I_E=-10 \mu \text{Adc}, I_c=0) \\ \hline \text{Collector Cut-off Current} \\ (V_{CB}=-50 \text{Vdc}, I_E=0) \\ \hline \text{Emitter Cut-off Current} \\ (V_{EB}=-4 \text{Vdc}, I_c=0) \\ \hline \text{ERISTICS} \\ \hline \text{DC Current Gain}^* \end{array}$	-60		Vdc Vdc nAdc
V <sub>(BR)EBO</sub> I <sub>CBO</sub> I <sub>EBO</sub>	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			Vdc nAdc
I <sub>CBO</sub>	$(l_{E}=-10\mu Adc, l_{C}=0)$ Collector Cut-off Current $(V_{CB}=-50Vdc, l_{E}=0)$ Emitter Cut-off Current $(V_{EB}=-4Vdc, l_{C}=0)$ ERISTICS DC Current Gain*	-5.0		nAdc
I <sub>EBO</sub>	$(V_{CB}=-50Vdc, I_{E}=0)$ Emitter Cut-off Current $(V_{EB}=-4Vdc, I_{C}=0)$ ERISTICS DC Current Gain*			
	(V <sub>EB</sub> =-4Vdc, I <sub>C</sub> =0) <b>ERISTICS</b> DC Current Gain*		-10	nAdc
<b>ON CHARACT</b>	DC Current Gain*			
h <sub>FE</sub>	(I <sub>c</sub> =-1.0mAdc, V <sub>CE</sub> =-10Vdc) (I <sub>c</sub> =-10mAdc, V <sub>CE</sub> =-10Vdc) (I <sub>c</sub> =-150mAdc, V <sub>CE</sub> =-10Vdc) (I <sub>c</sub> =-500mAdc, V <sub>CE</sub> =-10Vdc)	75 100 100 100 50	300	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage ( $I_c$ =-150mAdc, $I_B$ =-15mAdc) ( $I_c$ =-500mAdc, $I_B$ =-50mAdc)		-0.4 -1.6	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage ( $I_c$ =-150mAdc, $I_B$ =-15mAdc) ( $I_c$ =-500mAdc, $I_B$ =-50mAdc)		-1.3 -2.6	Vdc
SMALL-SIGN	AL CHARACTERISTICS			
f⊤	Current Gain-Bandwidth Product (I <sub>c</sub> =-2mAdc, V <sub>cE</sub> =-12Vdc, f=30MHz)	140(1	[yp.)	MHz
C <sub>cbo</sub>	Output Capacitance (V <sub>CB</sub> =-12Vdc, I <sub>E</sub> =0, f=100kHz)		5.0	pF
	CHARACTERISTICS			
T <sub>on</sub> t <sub>d</sub> t <sub>r</sub>	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		45 10 40	ns ns ns
t <sub>off</sub> t <sub>s</sub> t <sub>f</sub>	Turn-off Time Storage Time Fall Time $ V_{CC}=-6Vdc, I_C=-150mAdc $	dc	100 80 30	ns ns ns

## MMBT2907AT

### PNP General Purpose Amplifier

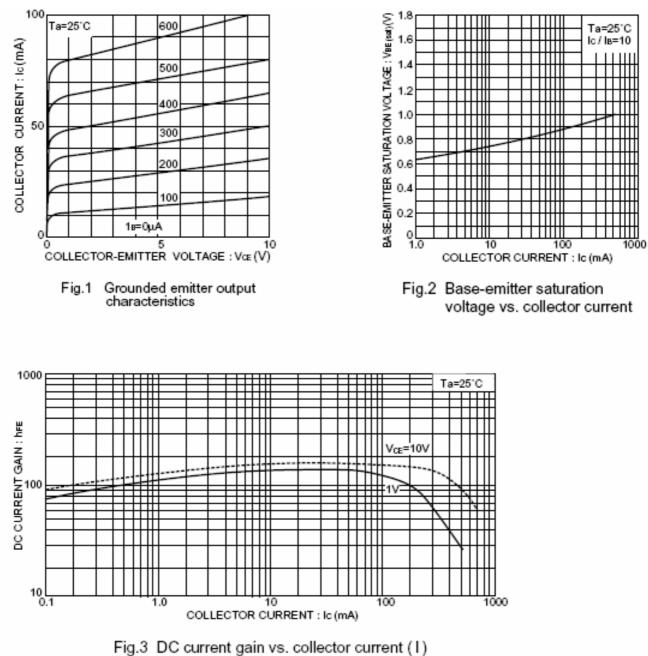


# www.mccsemi.com

## MMBT2907AT



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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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