

Micro Commercial Components



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

Features

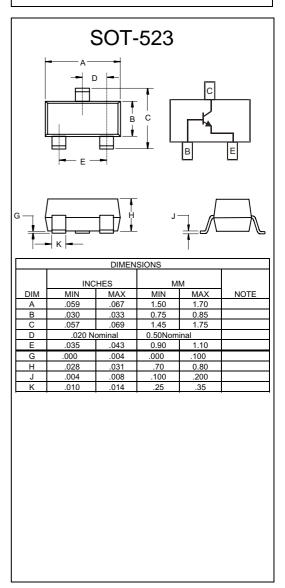
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Operating and Storage Junction Temperatures: -55 $^\circ\!\mathrm{C}$ to 150 $^\circ\!\mathrm{C}$
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Collector Current: 0.2A
- Marking: 1N

Electrical Characteristics @ 25°C Unless Otherwise Specified

P	arameter	Min	Max	Units
CTERISTICS				
Collector-Emitter Breakdown Voltage* (I _c =1.0mAdc, I _B =0)		40		Vdc
Collector-Base Breakdown Voltage (I _c =10µAdc, I _E =0)		60		Vdc
Emitter-Base Breakdown Voltage 6.0 ($I_{r}=10\mu$ Adc, $I_{c}=0$)		6.0		Vdc
Collector Cut-off Current (V _{CB} =30Vdc, I _E =0)			50	nAdc
Emitter Cut-off Current (V _{EB} =5Vdc, I _C =0)			50	nAdc
TERISTICS				
$\begin{array}{c} \text{DC Current Gain}^{*} \\ (I_{C}=0.1\text{mAdc}, V_{CE}=1.0\text{Vdc}) \\ (I_{C}=1.0\text{mAdc}, V_{CE}=1.0\text{Vdc}) \\ (I_{C}=10\text{mAdc}, V_{CE}=1.0\text{Vdc}) \\ (I_{C}=50\text{mAdc}, V_{CE}=1.0\text{Vdc}) \\ (I_{C}=100\text{mAdc}, V_{CE}=1.0\text{Vdc}) \end{array}$		40 70 100 60 30	300	
Collector-Emitter Saturation Voltage (I_c =10mAdc, I_B =1.0mAdc) (I_c =50mAdc, I_B =5.0mAdc)			0.2 0.3	Vdc
Base-Emitter Saturation Voltage (I_c =10mAdc, I_B =1.0mAdc) (I_c =50mAdc, I_B =5.0mAdc)		0.65	0.85 0.95	Vdc
NAL CHARACTERI	STICS			
Current Gain-Bandwidth Product (I _c =10mAdc, V _{ce} =20Vdc, f=100MHz)		300		MHz
(V _{CB} =5.0Vdec, I _E =0, f=1.0MHz)			4.0	pF
Noise Figure (I _c =100μAdc, V _{ce} =5.0Vdc, R _s =1.0kΩ f=1MHz)			5.0	dB
CHARACTERIST	ICS			
Delay Time			35	ns
	,			ns
Storage Time Fall Time			200 50	ns ns
	Collector-Emitte ($l_c=1.0mAdc$, Collector-Base I ($l_c=10\muAdc$, l_e Emitter-Base Br ($l_e=10\muAdc$, l_e Emitter-Base Br ($l_e=10\muAdc$, l_c Collector Cut-off ($V_{CB}=30Vdc$, l_i Emitter Cut-off C ($V_{CB}=5Vdc$, l_c - TERISTICS DC Current Gain ($l_c=0.1mAdc$, l_i ($l_c=10mAdc$, N ($l_c=10mAdc$, N ($l_c=50mAdc$, N ($l_c=10mAdc$, l_i ($l_c=50mAdc$, l_i Collector-Emitte ($l_c=10mAdc$, l_i ($l_c=50mAdc$, l_i Current Gain-Bac ($l_c=10mAdc$, l_i Current Gain-Bac ($l_c=10mAdc$, N Output Capacitar ($V_{CB}=5.0Vdec$ Noise Figure ($l_c=100\muAdc$, V_{C} Famme The storage Time Storage Time	$\label{eq:constraints} \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c $

MMBT3904T

150mW NPN General Purpose Amplifier



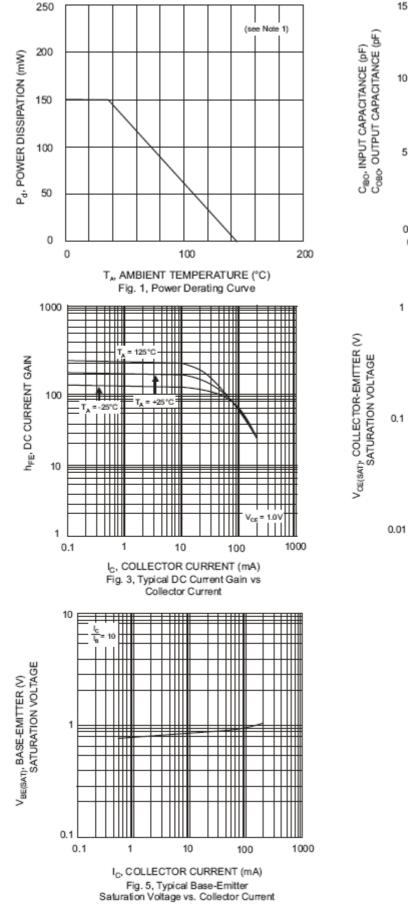
www.mccsemi.com

MMBT3904T

•*M*•*C*•*C*•

Micro Commercial Components

f= 1MHz



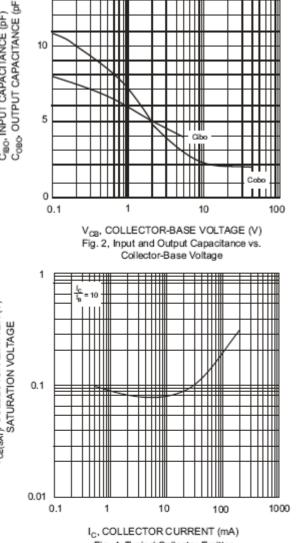


Fig. 4, Typical Collector-Emitter Saturation Voltage vs. Collector Current

www.mccsemi.com



Ordering Information :

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

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com

AMEYA360 Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

> Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales :

- Direct +86 (21) 6401-6692
- Email amall@ameya360.com
- QQ 800077892
- Skype ameyasales1 ameyasales2

> Customer Service :

Email service@ameya360.com

> Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com