

Micro Commercial Components



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

Features

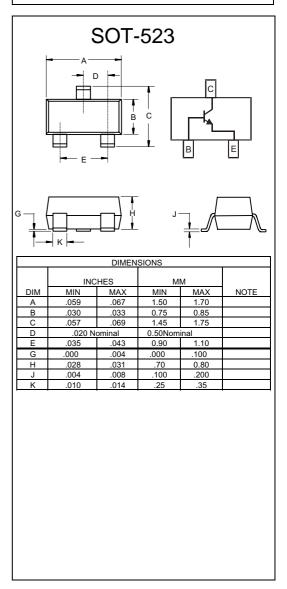
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Operating and Storage Junction Temperatures: -55 $^\circ\!\mathrm{C}$ to 150 $^\circ\!\mathrm{C}$
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Collector Current: 0.2A
-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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _c =1.0mAdc, I _B =0)		40		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =10µAdc, I _E =0)		60		Vdc
V _{(BR)EBO}	Emitter-Base Br (I _E =10µAdc, I _C	6.0		Vdc	
I _{CBO}	Collector Cut-of (V _{CB} =30Vdc, I		50	nAdc	
I _{EBO}	Emitter Cut-off C (V _{EB} =5Vdc, I _C =		50	nAdc	
ON CHARAC	TERISTICS				
h _{FE}	DC Current Gain* (I _c =0.1mAdc, V _{CE} =1.0Vdc) (I _c =1.0mAdc, V _{CE} =1.0Vdc) (I _c =10mAdc, V _{CE} =1.0Vdc) (I _c =50mAdc, V _{CE} =1.0Vdc) (I _c =100mAdc, V _{CE} =1.0Vdc)		40 70 100 60 30	300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I_c =10mAdc, I_B =1.0mAdc) (I_c =50mAdc, I_B =5.0mAdc)			0.2 0.3	Vdc
V _{BE(sat)}	Base-Emitter S (I _c =10mAdc, I (I _c =50mAdc, I	0.65	0.85 0.95	Vdc	
SMALL-SIG	NAL CHARACTERI	STICS			
f _T	Current Gain-Bandwidth Product (I _c =10mAdc, V _{CE} =20Vdc, f=100MHz)		300		MHz
C _{obo}	Output Capacitance (V _{CB} =5.0Vdec, I _E =0, f=1.0MHz)			4.0	pF
NF	Noise Figure (I _c =100μAdc, V _{ce} =5.0Vdc, R _s =1.0kΩ f=1MHz)			5.0	dB
SWITCHING	G CHARACTERIST	ICS			
t _d	Delay Time	(V _{CC} =3.0Vdc, V _{BE} =0.5V		35	ns
t _r	Rise Time	I _C =10mAdc, I _{B1} =1.0mA	,	35	ns
t _s t _f	Storage Time Fall Time			200 50	ns ns
ч		$I_{B1} = I_{B2} = I_{OIIIAUC}$		50	113

MMBT3904T

150mW NPN General Purpose Amplifier



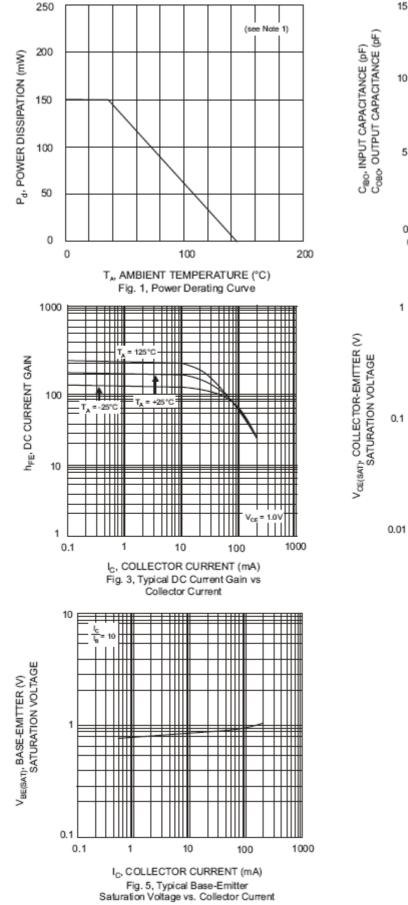
www.mccsemi.com

MMBT3904T

•*M*•*C*•*C*•

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f= 1MHz



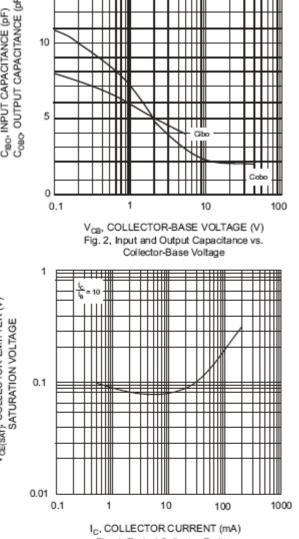


Fig. 4, Typical Collector-Emitter Saturation Voltage vs. Collector Current

Revision: A

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Ordering Information :

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

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