

Micro Commercial Components

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Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates
- RoHS Compliant. See ordering information) Designed for VHF/UHF Amplifier applications and high output VHF Oscillators
- High current gain bandwidth product
- Marking Code: 3EM
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	25	V
V _{CBO}	Collector-Base Voltage	30	V
V _{EBO}	Emitter-Base Voltage	3.0	V
lc	Collector Current-Continuous ⁽¹⁾	50	mA
Pc	Power dissipation (2)	225	mW
TJ	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

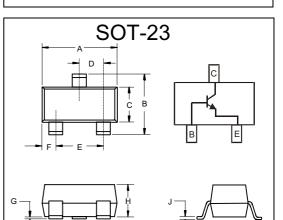
Flectrical Characteristics @ 25% Unless Atherwise Snecified

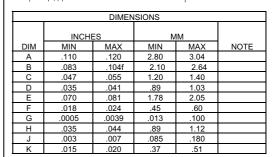
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Symbol	Parameter	Min	Max	Units			
OFF CHARACTERISTICS							
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (t _c =1.0mAdc, l _b =0)	25		Vdc			
V _{(BR)CBO}	Collector-Base Breakdown Voltage (t _c =100uAdc, l _e =0)	30		Vdc			
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (t=10uAdc, tc=0)	3.0		Vdc			
I _{сво}	Collector-Base Cutoff Current (V _{CB} =25Vdc,I _E =0)		100	nAdc			
I _{EBO}	Emitter-Base Cutoff Current (V_{EB} =2.0Vdc, I_{C} =0)		100	nAdc			
ON CHARA	ON CHARACTERISTICS						
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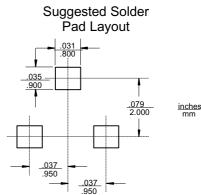
h _{FE}	DC Current Gain (h=4.0mAdc, V _{CE} =10Vdc)	60		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (L=4.0mAdc, I _B =400uAdc)		0.5	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (E=4.0mAdc,V _{CE} =10Vdc)		0.95	Vdc
SMALL S	IGNAL CHARACTERISTICS			
f _T	Current-Gain-Bandwidth Product (V _{CE} =10V, f=100MHz, l _C =4.0mA)	650		MHz
Ссв	Collector-Base Capacitance (V _{CB} =10V, f=1.0MHz, I _E =0)		0.7	pF
C _{RB}	Collector-Base Feedback Capacitance (V _{CB} =10V, f=1.0MHz, I=0)		0.65	pF



MMBTH10







Note: 1. Valid provided that terminals are kept at ambient temperature.

2. Pulse test: Pulse width<300us, duty cycle<2%

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

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