

Micro Commercial Components



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

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power dissipation: P_{CM}=250mW(T_{amb}=25°C)
- Collector current: $I_c=1A$ Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking:493

Maximum Ratings*

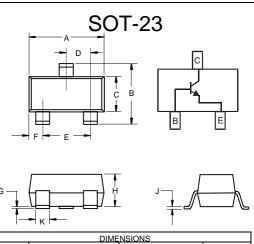
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	100	V
V _{CBO}	Collector-Base Voltage	120	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current,	1.0	A
Ptot	Power Dissipation at Tamb=25°C	250	mW
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

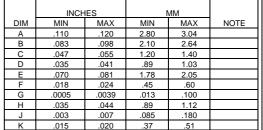
Electrical Characteristics @ 25°C Unless Otherwise Specified

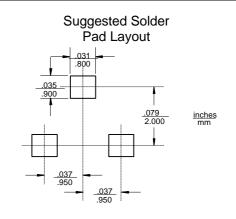
Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _c =10mAdc, I _B =0)	100		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =100µAdc, I _E =0)	120		Vdc	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100µAdc, I _C =0)	5.0		Vdc	
I _{CBO}	Collector Cutoff Current (V _{CB} =100Vdc, I _E =0Vdc)		0.1	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)		0.1	uAdc	
V _{CE(sat)}	Collector-Emitter Saturation Voltage* (I _c =500mAdc, I _B =50mAdc) (I _c =1Adc, I _B =100mAdc)		0.3 0.6	Vdc	
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage* ($I_c=1Adc$, $I_B=100mAdc$)		1.15	Vdc	
$V_{\text{BE}}(\text{on})$	Base-Emitter Turn On Voltage* (V _{CE} =10Vdc, I _C =1Adc)		1	Vdc	
h _{FE}	DC Current Gain (V _{CE} =10Vdc, I _C =1mAdc) (V _{CE} =10Vdc, I _C =250mAdc)* (V _{CE} =10Vdc, I _C =500mAdc)* (V _{CE} =10Vdc, I _C =1Adc)*	100 100 60 20	 300 		
f _T	Transition Frequency (I _c =50mAdc, V _{ce} =10Vdc, f=100MHz)	150		MHz	
C _{ob}	Output Capacitance (V _{CB} =10Vdc, f=1.0MHz) under pulsed conditions. Pulse width=300us		10	pF	

FMMT493

NPN Silicon Planar Medium Power Transistor







Revision: A

1 of 3

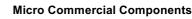
— www.mccsemi.com

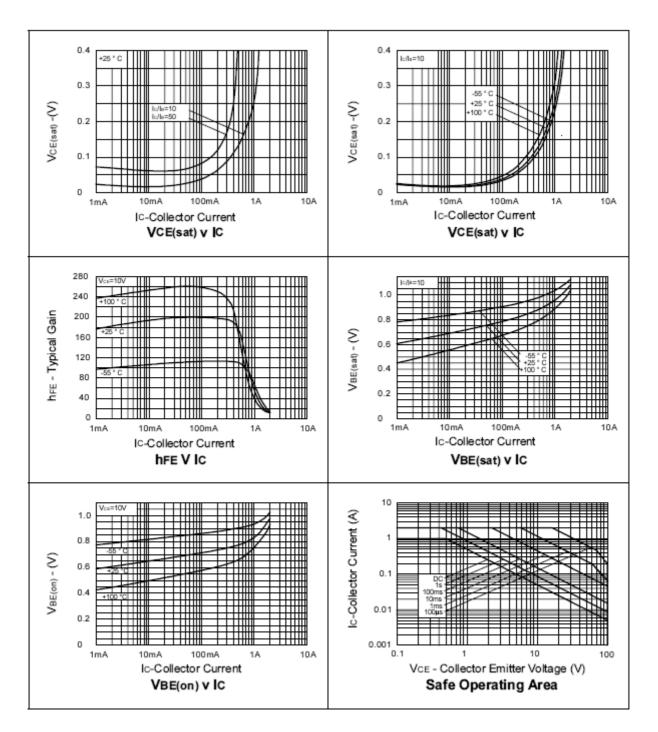
2011/01/01

FMMT493



TYPICAL CHARACTERISTICS





www.mccsemi.com



Ordering Information :

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

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