



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

FMMT591

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power dissipation: P_{CM}=0.5W(T_{amb}=25℃)
- Collector current: I_c=-1A
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings*

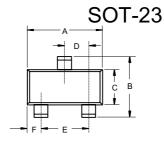
Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{CBO}	Collector-Base Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I _C	Collector Current,	-1.0	Α
P _{tot}	Power Dissipation at Tamb=25°C	5℃ 500 mW	
TJ	Operating Junction Temperature	-55 to +150	$^{\circ}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

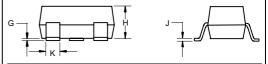
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter Min Max U			
OFF CHARA	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I _C =-10mAdc, I _B =0)	-60		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C = -100μAdc, I _E =0)	-80		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-100µAdc, I _C =0)	-5.0		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} = -60Vdc, 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
$V_{BE(sat)}$	Base-Emitter Saturation Voltage* (I _C = -1Adc, I _B =-100mAdc)1.2			
V_{BE}	Base-Emitter Voltage* (V _{CE} = -5Vdc, I _C =-1Adc)			Vdc
h _{FE}	DC Current Gain	100 100 80 15	300 	
f⊤	Transition Frequency (I _C =-50mAdc, V _{CE} =-10Vdc, f=100MHz) 150 MH		MHz	
C _{ob}	Output Capacitance (V _{CB} = -10Vdc, f=1.0MHz)		10	pF

 $^{^{\}star}$ Measured under pulsed conditions. Pulse width=300us. Duty cycle $\leqq\!2\%$

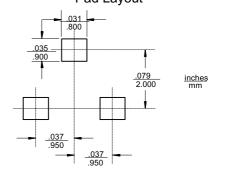
PNP Plastic-Encapsulate Transistor



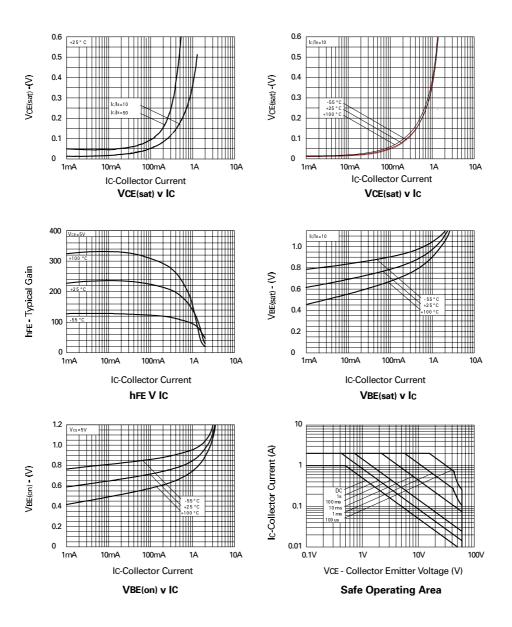


DIMENSIONS					
	INCH	IES	-	мм	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout









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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