

Pb

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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)
- Low collector to emitter saturation voltage VcE(sat)=0.3V max(@Ic=100mA,IB=10mA)
- Excellent linearity of DC forward current gain
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	50	V
V_{EBO}	Emitter-Base Voltage	6.0	V
l _c	Collector Current, Continuous	0.2	Α
Pb	Power Dissipation	0.15	W
TJ	Operating Junction Temperature	-55 to +125	ိင
T _{STG}	Storage Temperature	-55 to +125	၀

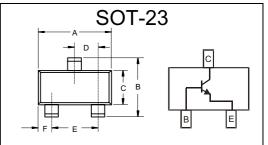
Electrical Characteristics @ 25°C Unless Otherwise Specified

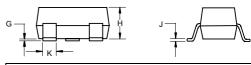
Symbol	Parameter	Min	Type	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I _C =100uAdc, I _B =0)	50			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100uAdc, I _E =0)	50			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100uAdc, I _C =0)	6.0			Vdc
I _{CBO}	Collector cut-off Current (V _{CB} =50Vdc, I _E =0			0.1	uAdc
I _{EBO}	Emitter cut-off Current (V _{EB} =6Vdc, I _C =0			0.1	uAdc
h _{FE}	DC Current Gain (I _c =1.0mAdc, V _{CE} =6.0Vdc) (I _c =0.1mAdc, V _{CE} =6.0Vdc)	150 50		800	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =100mAdc, I _B =10mAdc)			0.3	Vdc
V _{BE} (sat)	Base-Emitter Voltage (I _C =100mAdc, I _B =10mAdc)			1.0	Vdc
f⊤	Transition Frequency (I _C =10mAdc, V _{CE} =6Vdc)	180			MHz
C _{ob}	Collector output capacitance (I _E =0, V _{CE} =6Vdc,f=1MHz)			4.0	pF
NF	Noise figure (I==-0.1mAdc, Vc==6Vdc,f=1KHz, R _G =2KΩ)			15	dB

CLASSIFICATION OF h FE(1)

Rank	E	F	G
Range	150-300	250-500	400-800
MARKING	LE	LF	LG

NPN General Purpose Amplifier





DIMENSIONS					
	INCH	INCHES		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	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

www.mccsemi.com



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Ordering Information:

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

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

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Revision: B