



Micro Commercial Components



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HM4033

Features

- High current for general purpose amplifier application
- SOT-89 package for surface mount application
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Marking: H4033

Maximum Ratings @ Ta=25°C Unless Otherwise Specified

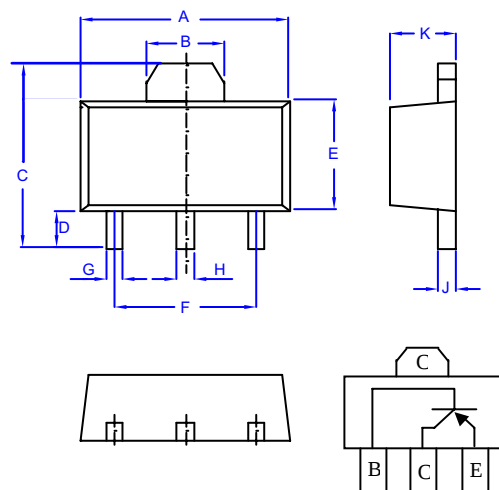
Symbol	Parameter	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{CBO}	Collector-Base Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-1	A
P _C	Collector Power Dissipation	0.5	W
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ Ta=25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
I _{CBO}	Collector Cutoff Current (V _{CB} =-60Vdc, I _E =0)			-100	nA
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5.0Vdc, I _C =0)			-100	nA
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-10uA, I _E =0)	-80			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0)	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =-10uA, I _C =0)	-5			V
h _{FE1}	V _{CE} =-5V, I _C =-0.1mA	75			
h _{FE2}	V _{CE} =-5V, I _C =-100mA	100			
h _{FE3}	V _{CE} =-5V, I _C =-500mA	70			
h _{FE4}	V _{CE} =-5V, I _C =-1000mA	25			
V _{CE(SAT)1}	I _C =-150mA, I _B =-15mA			-0.15	V
V _{CE(SAT)1}	I _C =-500mA, I _B =-50mA			-0.5	V
V _{BE(SAT)1}	I _C =-150mA, I _B =-15mA			-0.9	V
V _{BE(SAT)1}	I _C =-500mA, I _B =-50mA			-1.1	V
f _T	Transition Frequency (V _{CE} =-10V, I _C =50mA, f=100MHZ)	100			MHZ
C _{ob}	Collector Output Capacitance (V _{CB} =-10V, I _E =0, f=1MHZ)			20	pF

PNP Plastic Encapsulate Transistor

SOT-89



DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
C	.154	.165	3.91	4.19	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

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

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