



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

Marking:H4033

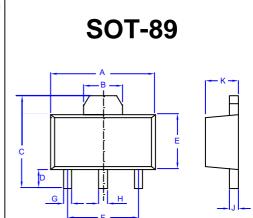
Maximum Ratings@ Ta=25°C Unless Otherwise Specified

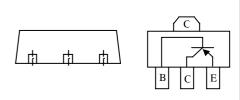
Symbol	Parameter	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{CBO}	Collector-Base Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-1	Α
Pc	Collector Power Dissipation	0.5	W
T_J	Junction Temperature	-55 to +150	°С
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ Ta=25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	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 (Ic=-10uA, I _E =0)	-80			V
V _(BR) CEO	Collector-Emitter Breakdown Voltage (Ic=-10mA, I _B =0)	-80			V
V _(BR) EBO	Emitter-Base Breakdown Voltage (IE=-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⊤	Transition Frequency (V _{CE} =-10V, I _C =50mA, f=100MHZ)	100			MHZ
Cob	Collector Output Capacitance (V _{CB} =-10V, I _E =0, f=1MHZ)			20	pF

PNP Plastic Encapsulate Transistor





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



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Ordering Information:

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

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

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