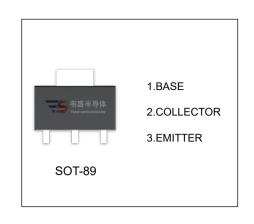


HM4033 TRANSISTOR (PNP)

FEATURES

- High Current
- General Purpose Amplifier Applications



MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	٧
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-1	Α
Pc	Collector Power Dissipation	500	mW
R _{0JA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA,I _E =0	-80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-80			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V,I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-100	nA
	h _{FE(1)} *	V _{CE} =-5V, I _C =-0.1mA	75			
DC current gain	h _{FE(2)} *	V _{CE} =-5V, I _C =-100mA	100			
De current gam	h _{FE(3)} *	V _{CE} =-5V, I _C =-500mA	70			
	h _{FE(4)} *	V _{CE} =-5V, I _C =-1A	25			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =-150mA,I _B =-15mA			-0.15	V
Conector-ennitier Saturation voitage		I _C =-500mA,I _B =-50mA			-0.5	V
Rasa amittar saturation voltage	V _{BE(sat)} *	I _C =-150mA,I _B =-15mA			-0.9	V
Base-emitter saturation voltage		I _C =-500mA,I _B =-50mA			-1.1	V
Transition frequency	f _T	Vc=-10V,lc=-50mA, f=100MHz	100			MHz
Collector output capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz			20	pF

^{*}Pulse test