

FEATURES

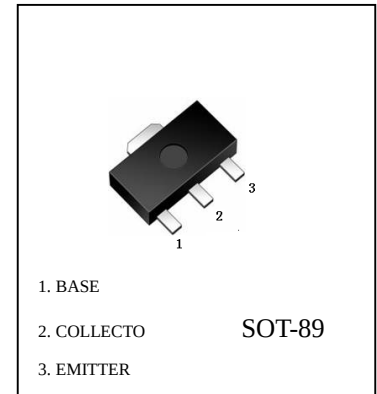
- Small size making it easy to provide high-density,small-sized hybrid IC ' s.

Marking: CH

Maximum Ratings (Ta=25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	75	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	1	A
Collector Power dissipation	P_C	0.5	W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55to +150	°C

2SC4272 (NPN)



ELECTRICAL CHARACTERISTICS (@ Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C=10\mu A, I_E=0$	75			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C=1mA, I_B=0$	45			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=10\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=40V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=5V, I_C=500mA$	60		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=0.5A, I_B=0.05A$		0.2	0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=0.5A, I_B=0.05A$		0.9	1.2	V
Transition frequency	f_T	$V_{CE}=10V, I_C=50mA$	180	250		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		15		pF

2SC4272 Typical Characteristics

