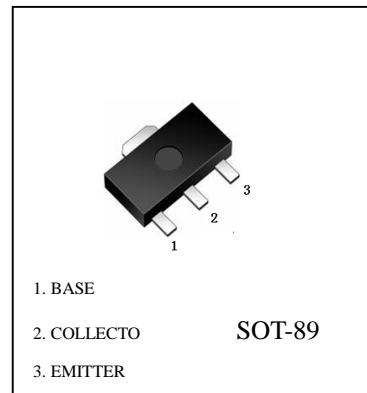


## FEATURES

- Small flat package.
- Low saturation voltage  $V_{CE(sat)}=-0.5V$
- High speed switching time
- $PC=1.0$  to  $2.0W$
- Complementary to 2SA1213

## 2SC2873 (NPN)



Maximum Ratings ( $T_a=25^{\circ}\text{C}$  unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	50	V
Collector-Emitter Voltage	$V_{CEO}$	50	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current -Continuous	$I_C$	2	A
Collector Power dissipation	$P_C$	0.5 1 <sup>(1)</sup>	W
Junction Temperature	$T_J$	150	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-55 to +150	$^{\circ}\text{C}$

Note (1): Mounted on a ceramic substrate(250mm<sup>2</sup>\*0.8t)

## ELECTRICAL CHARACTERISTICS (@ $T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	$V_{CEO}$	$I_C=10\text{mA}, I_B=0$	50			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=50\text{V}, I_E=0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=2\text{V}, I_C=500\text{mA}$	70		240	
Collector-emitter saturation voltage	$V_{CE(\text{sat})}$	$I_C=1\text{A}, I_B=50\text{mA}$			0.5	V
Base-emitter saturation voltage	$V_{BE(\text{sat})}$	$I_C=1\text{A}, I_B=50\text{mA}$			1.2	mV
Transition frequency	$f_T$	$V_{CE}=2\text{V}, I_c=0.5\text{A}$		120		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$		30		pF

## CLASSIFICATION OF $h_{FE}$

Rank	O	Y
Range	70-140	120-240
Marking	MO	MY

## 2SC2873 Typical Characteristics

