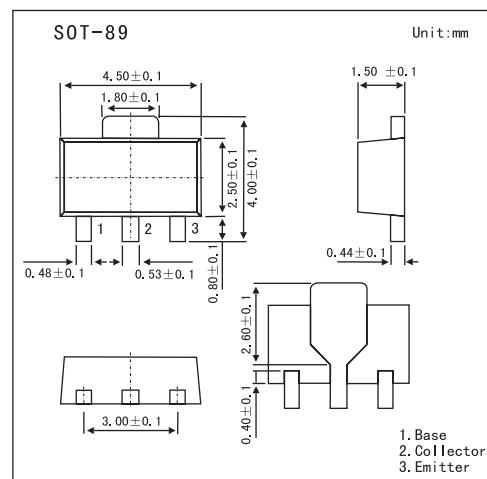


Silicon PNP Epitaxial Type**2SC2873****■ Features**

- Low saturation voltage: $V_{CE}(\text{sat}) = 0.5 \text{ V}$ (max) ($I_C = 1 \text{ A}$).
- High speed switching time: $t_{\text{stg}} = 1.0 \mu\text{s}$ (typ.).
- Small flat package.
- $PC = 1.0 \text{ to } 2.0 \text{ W}$

**■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	50	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	2	A
Base current	I_B	0.4	A
Collector power dissipation	P_C	500	mW
	$P_C * 1$	1000	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to +150	$^\circ\text{C}$

*1 Mounted on ceramic substrate (250 mm² X 0.8 t)

2SC2873

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V _{CEO}	I _C = 10 mA, I _B = 0	50			V
Collector cut-off current	I _{CBO}	V _{CB} = 50 V, I _E = 0			0.1	μ A
Emitter cut-off current	I _{EB0}	V _{EB} = 5 V, I _C = 0			0.1	μ A
DC current gain	h _{FE}	V _{CE} = 2 V, I _C = 0.5 A	70		240	
		V _{CE} = 2 V, I _C = 2.0 A	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 1 A, I _B = 0.05 A			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 1 A, I _B = 0.05 A			1.2	V
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz		30		pF
Turn-on time	t _{on}	 I _{B1} = -I _{B2} = 0.05 A, DUTY CYCLE ≤ 1%		0.1		μ s
Storage time	t _{stg}			1.0		μ s
Fall time	t _f			0.1		μ s
Transition frequency	f _T	V _{CE} = 2 V, I _C = 0.5 A		120		MHz

■ hFE Classification

Marking	MO	MY
Rank	O	Y
hFE	70~140	120~240