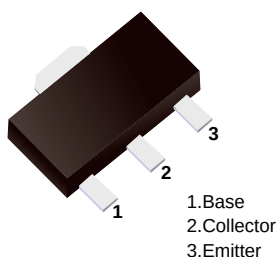


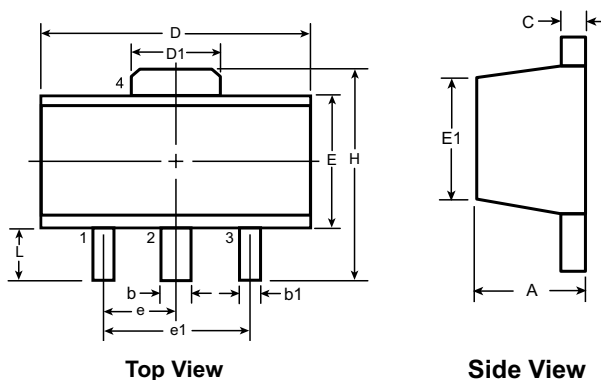
■ Features

- Small Flat Package
- High Speed Switching Time
- Low Collector-emitter saturation voltage
- Complementary to 2SA1213



■ Simplified outline(SOT-89)

SOT-89 PACKAGE OUTLINE



Symbol		A	b	b1	C	D	D1	E	E1	e	e1	H	L
Dimensions (mm)	MIN	1.40	0.44	0.36	0.3	4.40	1.50	2.29	2.00 [†]	1.50 BSC	3.00 BSC	3.94	0.89
	NOM	-	-	-	-	-	-	-	-			-	-
	MAX	1.60	0.56	0.48	0.5	4.60	1.75	2.60	2.29			4.25	1.20

Dimensions in mm

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	50	V
Collector - Emitter Voltage	V _{CEO}	50	
Emitter - Base Voltage	V _{EBO}	5	
Collector Current - Continuous	I _C	2	A
Collector Power Dissipation	P _C	500	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	250	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

2SC2873

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _c = 100uA, I _E = 0	50			V
Collector- emitter breakdown voltage	V _{CEO}	I _c = 1mA, I _B = 0	50			
Emitter - base breakdown voltage	V _{EBO}	I _E = 100uA, I _c = 0	5			
Collector-base cut-off current	I _{CBO}	V _{CB} = 50V , I _E = 0			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V , I _c =0			0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =1A, I _B =50mA			0.5	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =1A, I _B =50mA			1.2	
DC current gain	h _{FE}	V _{CE} = 2V, I _c = 0.5A	70		240	
		V _{CE} = 2V, I _c = 2A	20			
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz		30		pF
Transition frequency	f _T	V _{CE} = 2V, I _c = 0.5A		120		MHz

■ Classification of h_{FE}(1)

Type	2SC2873-O	2SC2873-Y
Range	70-140	120-240
Marking	MO	MY

RATING AND CHARACTERISTIC CURVES (2SC2873)

