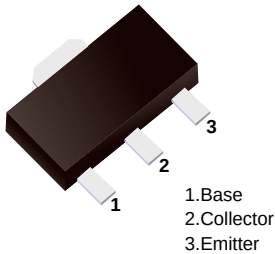


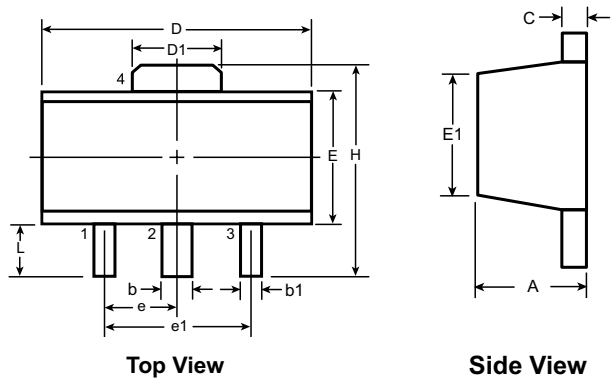
■ Features

- 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	3.94	0.89
	NOM	-	-	-	-	-	-	-	-	3.00 BSC	-	-
	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 _{CB0}	50	V
Collector - Emitter Voltage	V _{CE0}	50	
Emitter - Base Voltage	V _{EB0}	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	VCBO	Ic= 100uA, IE= 0	50			V
Collector- emitter breakdown voltage	VCEO	Ic= 1mA, IB= 0	50			
Emitter - base breakdown voltage	VEBO	IE= 100uA, IC= 0	5			
Collector-base cut-off current	ICBO	VCB= 50V , IE= 0			0.1	uA
Emitter cut-off current	IEBO	VEB= 5V , IC=0			0.1	
Collector-emitter saturation voltage	VCE(sat)	Ic=1A, IB=50mA			0.5	V
Base - emitter saturation voltage	VBE(sat)	Ic=1A, IB=50mA			1.2	
DC current gain	hFE	VCE= 2V, IC= 0.5A	70		240	
		VCE= 2V, IC= 2A	20			
Collector output capacitance	Cob	VCB= 10V, IE= 0,f=1MHz		30		pF
Transition frequency	fr	VCE= 2V, IC= 0.5A		120		MHz

■ Classification of hfe(1)

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

RATING AND CHARACTERISTIC CURVES (2SC2873)

