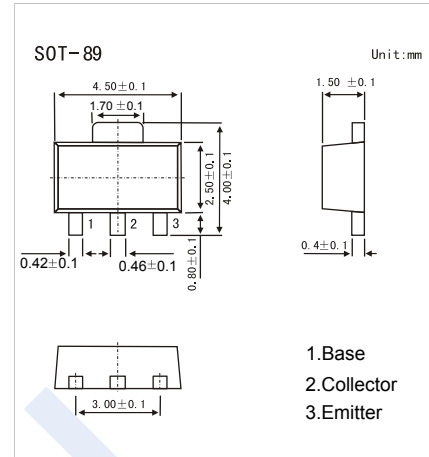


NPN Transistors

2SC2873

■ Features

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

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

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	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = 100\mu\text{A}, I_E = 0$	50			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = 1\text{mA}, I_B = 0$	50			
Emitter - base breakdown voltage	V_{EB0}	$I_E = 100\mu\text{A}, I_C = 0$	5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 50\text{V}, I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 1\text{A}, I_B = 50\text{mA}$			0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 1\text{A}, I_B = 50\text{mA}$			1.2	
DC current gain	h_{FE}	$V_{CE} = 2\text{V}, I_C = 0.5\text{A}$	70		240	
		$V_{CE} = 2\text{V}, I_C = 2\text{A}$	20			
Collector output capacitance	C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$		30		pF
Transition frequency	f_T	$V_{CE} = 2\text{V}, I_C = 0.5\text{A}$		120		MHz

■ Classification of $h_{fe}(1)$

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

NPN Transistors

2SC2873

Typical Characteristics

