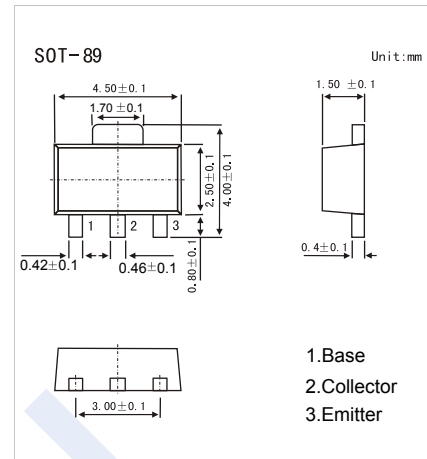


NPN Transistors

2SC2873-HF

■ Features

- Small Flat Package
- High Speed Switching Time
- Low Collector-emitter saturation voltage
- Complementary to 2SA1213-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



■ 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	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _C = 100uA, I _E = 0	50			V
Collector- emitter breakdown voltage	V _{CE0}	I _C = 1mA, I _B = 0	50			
Emitter - base breakdown voltage	V _{EB0}	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-HF	2SC2873-Y-HF
Range	70-140	120-240
Marking	MO _F	MY _F

NPN Transistors

2SC2873-HF

■ Typical Characteristics

