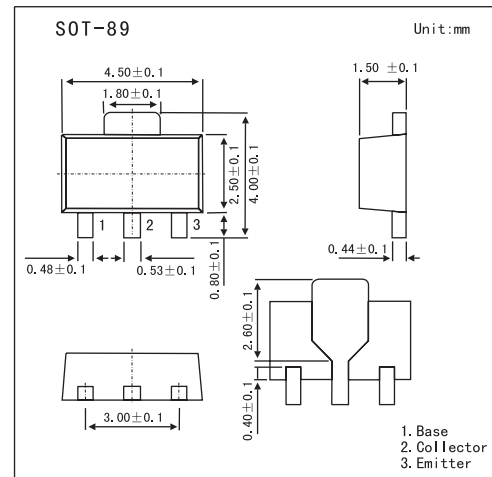


NPN Medium Power Transistors

■ Features

- High current (max. 1 A).
- Low voltage (max. 80 V).



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	CBO	100	V
Collector-emitter voltage	CEO	80	V
Emitter-base voltage	VEBO	5	V
Collector current	Ic	1	A
Peak collector current	ICM	1.5	A
Peak base current	IBM	0.2	A
Total power dissipation	P _{tot}	1.3	W
Storage temperature	T _{stg}	-65 to +150	°C
Junction temperature	T _j	150	°C
Operating ambient temperature	R _{amb}	-65 to +150	°C
Thermal resistance from junction to ambient	R _{th(j-a)}	94	K/W
Thermal resistance from junction to solder point	R _{th(j-s)}	14	K/W

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	IcBO	V _{CB} = 30 V, I _E = 0			100	nA
		V _{CB} = 30 V, I _E = 0; T _J = 125°C			10	μA
Emitter cutoff current	I _{EBO}	V _{EB} = 5 V, I _C = 0			100	nA
DC current gain	h _{FE}	I _C = 5 mA; V _{CE} = 2V	90			
		I _C = 150 mA; V _{CE} = 2V	90		400	
		I _C = 500 mA; V _{CE} = 2V	25		80	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 500 mA; I _B = 50 mA			0.5	V
Base to emitter voltage	V _{BE}	I _C = 500 mA; V _{CE} = 2 V			1	V
Transition frequency	f _T	I _C = 10 mA; V _{CE} = 5 V; f = 100 MHz		130		MHz
DC current gain ratio of the complementary pairs	$\frac{h_{FE}}{h_{FE}}$	I _C = 150 mA; V _{CE} = 2V		1.3	1.6	

■ h_{FE} Classification

Marking	BW	BV	BU
hFE1	90-180	135-270	200-400

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