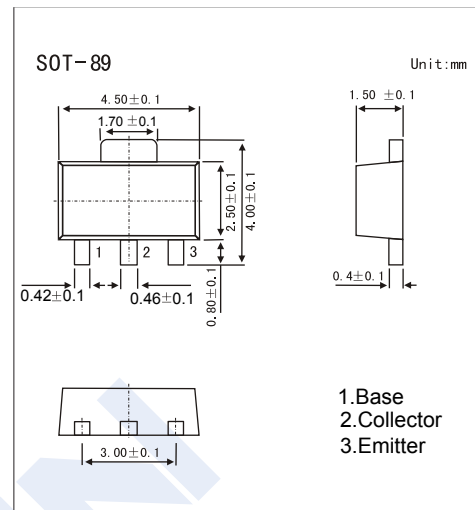


## NPN Transistors

## 2SD1007

## ■ Features

- High collector to emitter voltage:  $V_{CEO} > 120V$ .

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

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	120	V
Collector-emitter voltage	$V_{CEO}$	120	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	0.7	A
Collector current (pulse) *	$I_C (pu)$	1.2	A
Collector power dissipation	$P_c$	2	W
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ C$

\*.  $PW \leq 10ms$ , duty cycle  $\leq 50\%$

■ Electrical Characteristics  $T_a = 25^\circ C$ 

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Base-emitter voltage *	$V_{BE}$	$V_{CE} = 10V, I_C = 10mA$	550	620	650	mV
Collector cutoff current	$I_{CBO}$	$V_{CB} = 120V, I_E = 0$			100	nA
Emitter cutoff current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$			100	nA
DC current gain *	$h_{FE}$	$V_{CE} = 1V, I_C = 5.0mA$	45	200		
		$V_{CE} = 1V, I_C = 100mA$	90	200	400	
Collector-emitter saturation voltage *	$V_{CE(sat)}$	$I_C = 500mA, I_B = 50mA$		0.3	0.6	V
Base-emitter saturation voltage *	$V_{BE(sat)}$	$I_C = 500mA, I_B = 50mA$		0.9	1.5	V
Output capacitance	$C_{ob}$	$V_{CB} = 10V, I_E = 0, f = 1.0MHz$		10		pF
Transition frequency	$f_T$	$V_{CE} = 10V, I_E = -10mA$		90		MHz

\*.  $PW \leq 350us$ , duty cycle  $\leq 2\%$

■  $h_{FE}$  Classification(2)

Marking	HR	HQ	HP
$h_{FE}$	90~180	135~270	200~400

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