

## 2SD1007 (NPN)

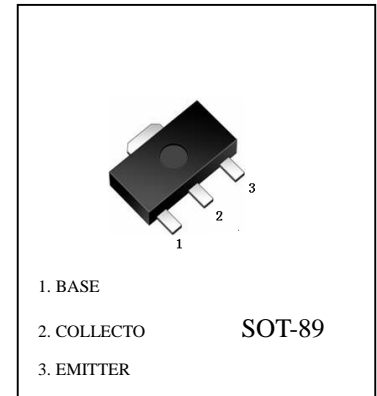
### Features

- High collector to emitter voltage:  $V_{CE0} > 120V$ .

### 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 10ms,duty cycle 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

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

### $h_{FE}$ Classification

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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Bipolar Transistors - BJT category](#):*

*Click to view products by [Hottech manufacturer](#):*

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MJ15024/WS](#) [MJ15025/WS](#) [BC546/116](#) [BC556/FSC](#) [BC557/116](#) [BSW67A](#) [HN7G01FU-A\(T5L,F,T](#)  
[NJVMJD148T4G](#) [NSVMMBT6520LT1G](#) [NTE187A](#) [NTE195A](#) [NTE2302](#) [NTE2330](#) [NTE2353](#) [NTE316](#) [IMX9T110](#) [NTE63](#) [NTE65](#)  
[C4460](#) [SBC846BLT3G](#) [2SA1419T-TD-H](#) [2SA1721-O\(TE85L,F\)](#) [2SA1727TLP](#) [2SA2126-E](#) [2SB1202T-TL-E](#) [2SB1204S-TL-E](#) [2SC5488A-](#)  
[TL-H](#) [2SD2150T100R](#) [SP000011176](#) [FMC5AT148](#) [2N2369ADCSM](#) [2SB1202S-TL-E](#) [2SC2412KT146S](#) [2SC4618TLN](#) [2SC5490A-TL-H](#)  
[2SD1816S-TL-E](#) [2SD1816T-TL-E](#) [CMXT2207 TR](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#) [BC557B](#) [TTC012\(Q\)](#) [BULD128DT4](#) [JANTX2N3810](#)  
[Jantx2N5416](#) [US6T6TR](#) [KSF350](#) [068071B](#)