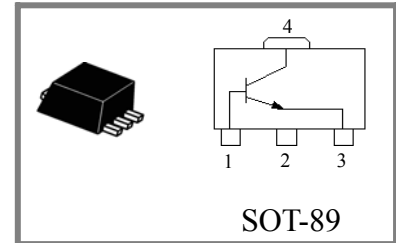


NPN General use transistor

1.2W 3A 30V

Applications: Can be used for switching and amplifying in various electrical and electronic equipments.



MARKING

Parameters	Symbol	Rating	Unit
Collector-emitter voltage ($I_B=0$)	V_{CEO}	30	V
Collector-base voltage ($I_E=0$)	V_{CBO}	40	V
Emitter-base voltage ($I_C=0$)	V_{EBO}	5	V
Collector current	I_C	3	A
Total power dissipation ($T_A=25^\circ\text{C}$)*	P_{tot}	1.2	W
Max junction temperature	T_{jm}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55~150	$^\circ\text{C}$

* mounted on printed circuit board.

Characteristics (Unless otherwise specified, $T_A=25^\circ\text{C}$)

Parameters		symbol	Test condition	min	typ	max	unit
Collector-emitter breakdown voltage		$V_{(BR)CEO}$	$I_C=10\text{mA}$, $I_B=0$	30	—	—	V
Collector-base breakdown voltage		$V_{(BR)CBO}$	$I_C=1\text{mA}$, $I_E=0$	40	—	—	V
Emitter-base breakdown voltage		$V_{(BR)EBO}$	$I_E=1\text{mA}$, $I_C=0$	5	—	—	V
Forward current transfer ratio ¹⁾	R	h_{FE}	$V_{CE}=2\text{V}$; $I_C=1\text{A}$	180	—	390	—
	S			270	—	560	—
Collector-base cutoff current		I_{CBO}	$V_{CB}=30\text{V}$, $I_E=0$	—	—	1	μA
Collector-emitter saturation voltage ¹⁾		$V_{CE(sat)}$	$I_C=2\text{A}$, $I_B=200\text{mA}$	—	—	0.5	V
Transition frequency		f_T	$I_C=100\text{mA}$, $V_{CE}=5\text{V}$, $f=100\text{MHz}$	—	90	—	MHz

¹⁾ pulse method: $t_w:300\mu\text{s}$, duty ratio $\leq 2\%$.

Typical curve

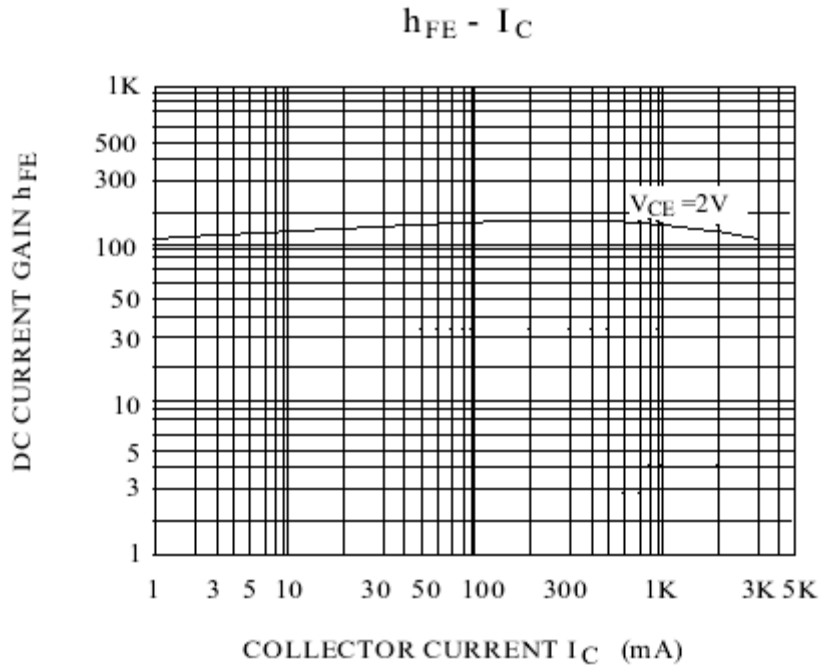
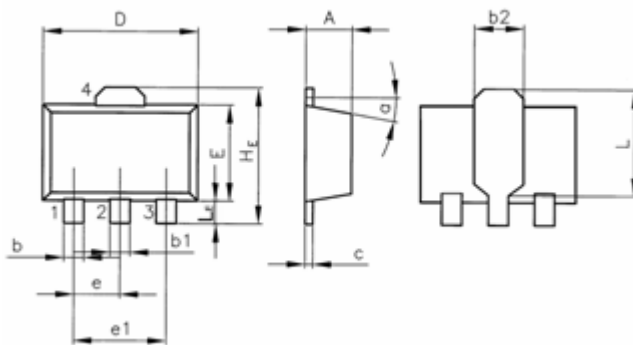


fig.1 Typical curve

Outline dimensions

unit: mm



dimensions symbol	SOT-89		
	min	type	max
A	1.4	—	1.6
b	0.35	—	0.55
b1	0.4	—	0.65
b2	—	1.6	—
c	0.35	—	0.45
D	4.4	—	4.6
E	2.35	—	2.55
e	—	1.5	—
e1	—	3	—
H_E	—	4.15	—
L	—	2.7	—
LE	—	1.0	—
α	—	5°	—

Fig.2 Outline dimensions

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 [Shikues 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](#)