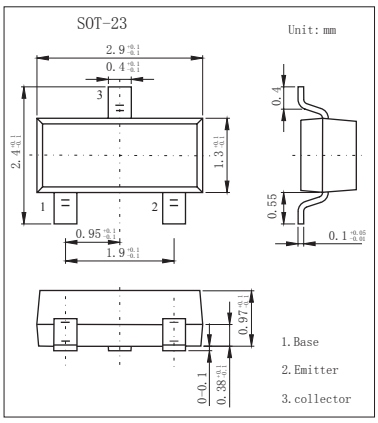
# PNP Transistors
# KST9012




## ■ Features

- Excellent $h_{FE}$ liearity
- Collector Current :$I_C$=-0.5A

## ■ Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector - Base Voltage | $V_{CBO}$ | -40 | V |
| Collector - Emitter Voltage | $V_{CEO}$ | -25 | V |
| Emitter - Base Voltage | $V_{EBO}$ | -5 | V |
| Collector Current to Continuous | $I_C$ | -500 | mA |
| Collector Power Dissipation | $P_C$ | 300 | mW |
| Junction Temperature | $T_j$ | 150 | ℃ |
| Storage Temperature | $T_{stg}$ | -55 to 150 | ℃ |

## ■ Electrical Characteristics Ta = 25℃

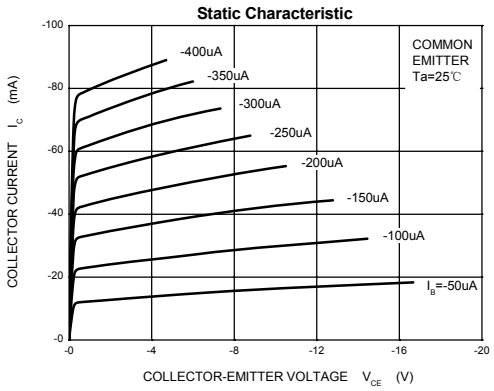
| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Collector - base breakdown voltage | $V_{CBO}$ | $I_C$= -100u A, $I_E$=0 | -40 | | | V |
| Collector - emitter breakdown voltage | $V_{CEO}$ | $I_C$= -1 mA , $I_B$=0 | -25 | | | V |
| Emitter - base breakdown voltage | $V_{EBO}$ | $I_E$= -100uA, $I_C$=0 | -5 | | | V |
| Collector cut - off current | $I_{CBO}$ | $V_{CB}$=- 40V, $I_E$=0 | | | -0.1 | μA |
| Collector cut - off current | $I_{CEO}$ | $V_{CB}$=-20V, $I_E$=0 | | | -0.1 | μA |
| Emitter cut - off current | $I_{EBO}$ | $V_{EB}$=- 5V, $I_C$=0 | | | -0.1 | μA |
| DC current gain | $h_{FE}$ | $V_{CE}$=-1V, $I_C$= -50mA | 120 | | 400 | |
| Collector - emitter saturation voltage | $V_{CE(sat)}$ | $I_C$= -500 mA, $I_B$= -50mA | | | -0.6 | V |
| Base - emitter voltage | $V_{BE(sat)}$ | $I_C$= -500 mA, $I_B$=- 50mA | | | -1.2 | V |
| Collector output capacitance | $C_{ob}$ | $V_{CB}$=-10V,$I_E$=0,f=1MHz | | | 5 | pF |
| Transition frequency | $f_T$ | $V_{CE}$=-6V, $I_C$=-20mA,f=30MHz | 150 | | | MHz |

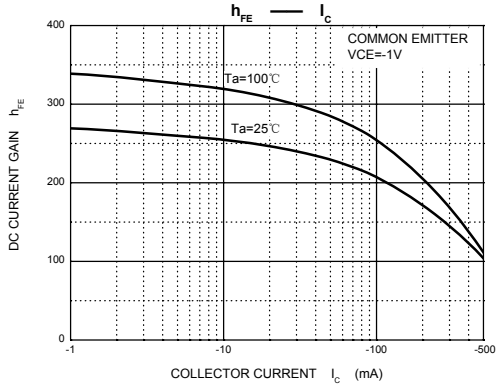
## ■ Classification of $h_{fe(1)}$

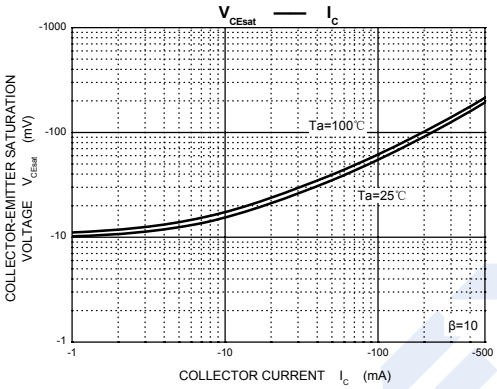
| Marking | 2T1 | | | |
|---|---|---|---|---|
| Rank | | L | H | J |
| Range | 200-350 | 120-200 | 144-202 | 300-400 |

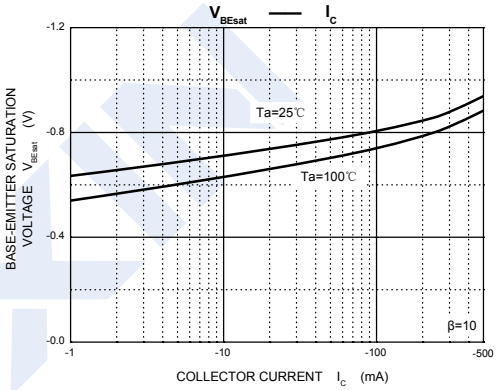
# KST9012

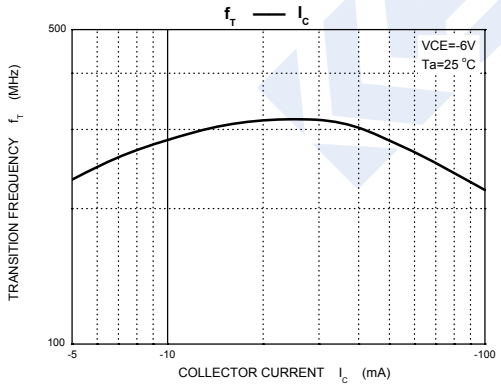
## ■ Typical Characteristics

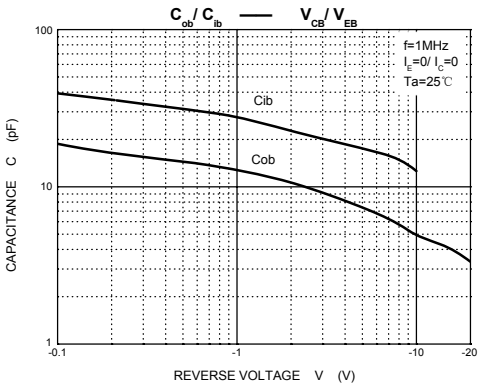


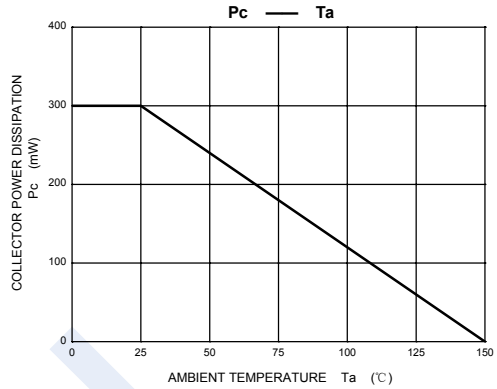



# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for*** Bipolar Transistors - BJT ***category:***

***Click to view products by*** KEXIN ***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