

#### **Descriptions**

- General purpose application
- Switching application

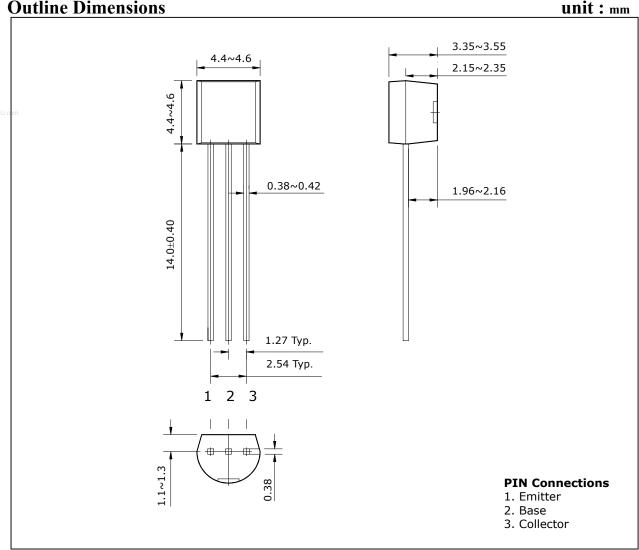
#### **Features**

- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2222

## **Ordering Information**

Type NO.	Marking	Package Code		
STN2907	STN2907	TO-92		

## **Outline Dimensions**



KST-9063-003

# STN2907

Ta=25°C

## Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V <sub>CBO</sub>	-60	V
Collector-Emitter voltage	V <sub>CEO</sub>	-40	V
Emitter-Base voltage	V <sub>EBO</sub>	-5	V
Collector current	I <sub>C</sub>	-600	mA
Collector dissipation	P <sub>C</sub>	625	mW
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55~150	°C

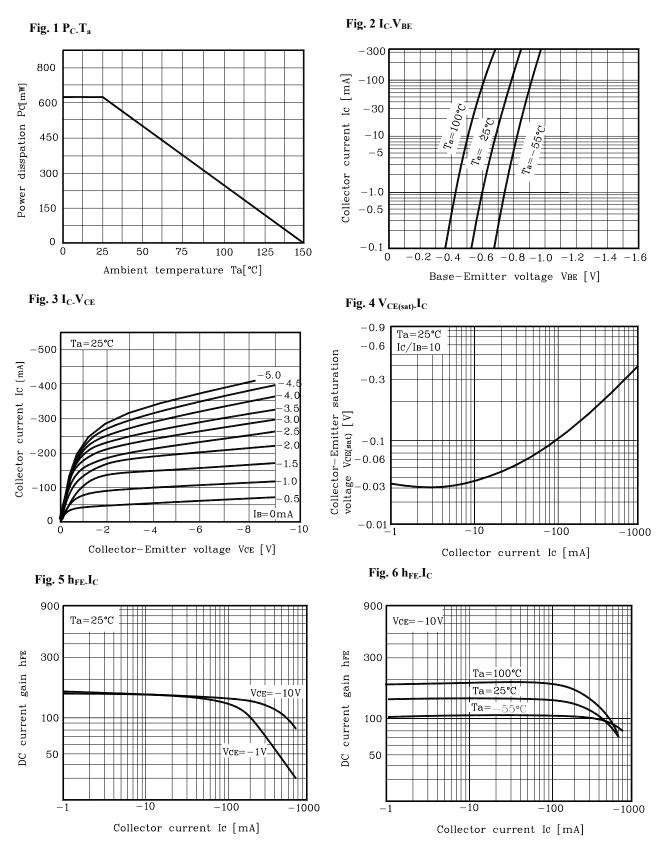
## **Electrical Characteristics**

Ta=25°C

Electrical Characteristics			Ta=25°C			
Characteristic	Symbol	<b>Test Condition</b>	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	$BV_{CBO}$	$I_{C}$ =-10 $\mu$ A, $I_{E}$ =0	-60	-	-	V
Collector-Emitter breakdown voltage	$BV_{CEO}$	$I_{C}$ =-1mA, $I_{B}$ =0	-40	-	-	V
Emitter-Base breakdown voltage	$BV_{EBO}$	$I_{E}$ =-10 $\mu$ A, $I_{C}$ =0	-5	-	-	V
Collector cut-off current	$I_{CBO}$	$V_{CB}$ =-50V, $I_{E}$ =0	-	-	-10	nA
DC current gain	h <sub>FE</sub>	$V_{CE}$ =-10V, $I_{C}$ =-10mA	75	-	-	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_{C}$ =-150mA, $I_{B}$ =-15mA	-	-	-0.4	V
Transistor frequency	$f_{T}$	$V_{CE}$ =-20V, $I_C$ =-50mA	250	-	-	MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB}$ =-10V, $I_E$ =0, f=1MHz	-	6.0	-	pF

## STN2907

## **Electrical Characteristic Curves**



KST-9063-003

# **STN2907**

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