

**Descriptions**

- General purpose application
- Switching application

**Features**

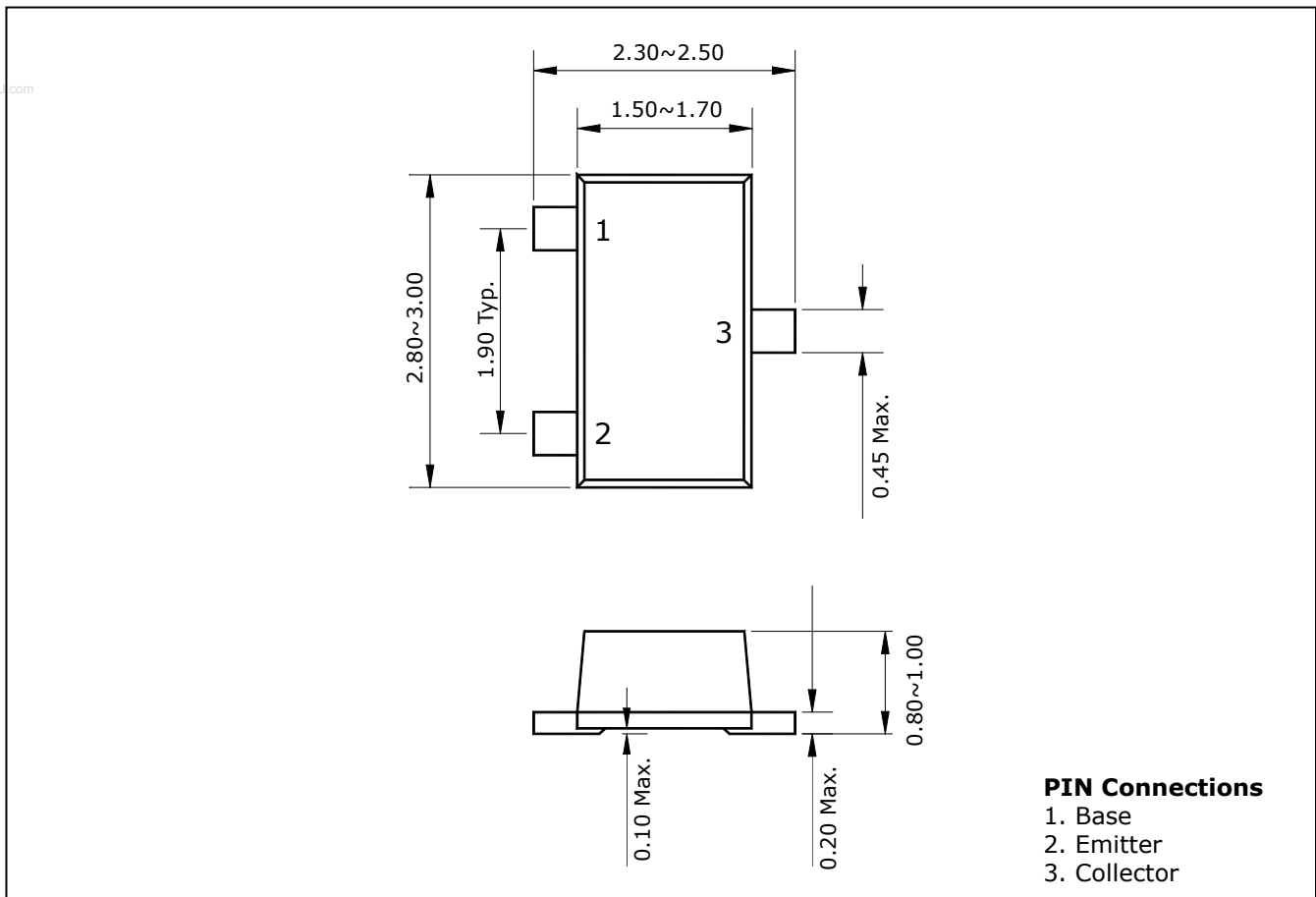
- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2907ASF

**Ordering Information**

Type NO.	Marking	Package Code
STN2222ASF	XA	SOT-23F

**Outline Dimensions**

**unit : mm**



**Absolute maximum ratings**

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	$V_{CBO}$	60	V
Collector-Emitter voltage	$V_{CEO}$	40	V
Emitter-Base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	600	mA
Collector dissipation	$P_C^*$	350	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55~150	°C

\* : Package mounted on 99.5% Alumina 10×8×0.1

**Electrical Characteristics**

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	$BV_{CBO}$	$I_C=10\mu A, I_E=0$	60	-	-	V
Collector-Emitter breakdown voltage	$BV_{CEO}$	$I_C=10mA, I_B=0$	40	-	-	V
Emitter-Base breakdown voltage	$BV_{EBO}$	$I_E=10\mu A, I_C=0$	5	-	-	V
Collector cut-off current	$I_{CBO}$	$V_{CB}=60V, I_E=0$	-	-	10	nA
DC current gain	$h_{FE}$	$V_{CE}=10V, I_C=10mA$	75	-	-	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C=150mA, I_B=15mA$	-	-	0.4	V
Transition frequency	$f_T$	$V_{CE}=20V, I_C=20mA$	250	-	-	MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	6.0	-	pF

Electrical Characteristic Curves

Fig. 1  $P_c - T_a$

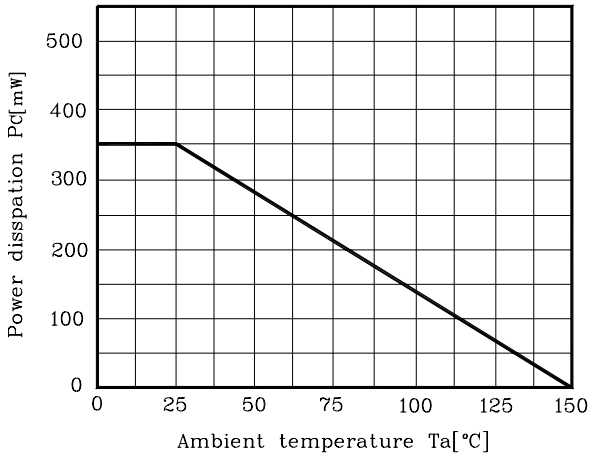


Fig. 2  $I_c - V_{BE}$

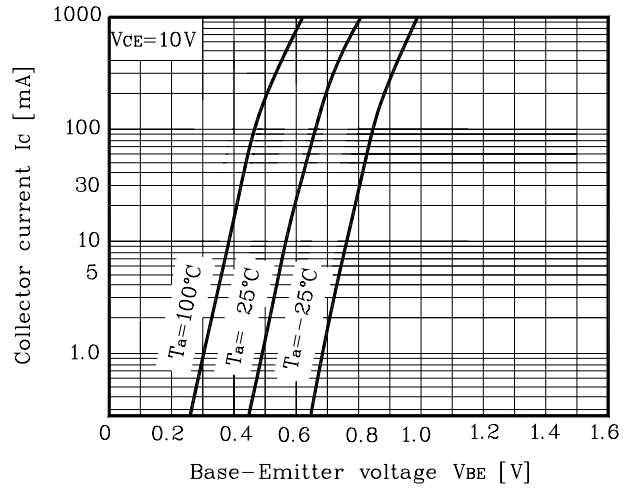


Fig. 3  $I_c - V_{CE}$

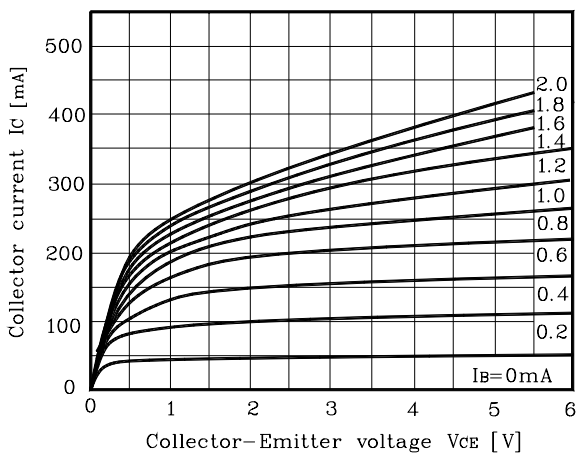


Fig. 4  $V_{CE(SAT)} - I_c$

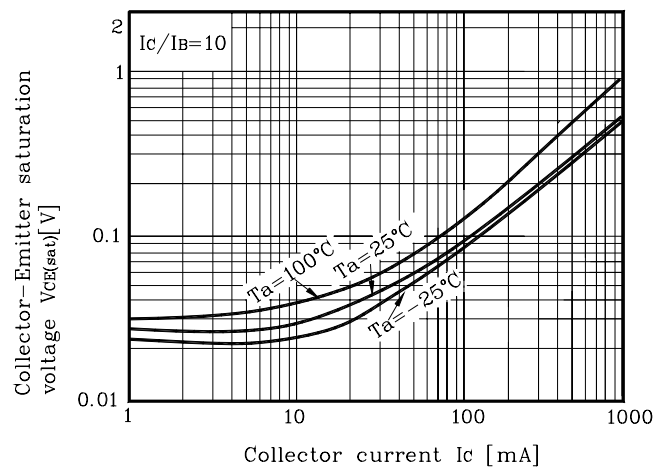
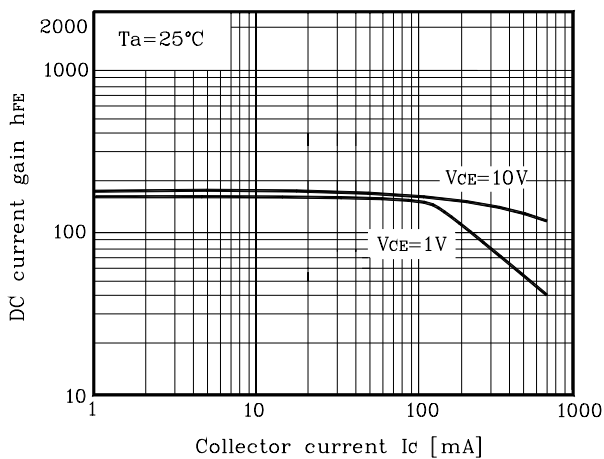


Fig. 5  $h_{FE} - I_c$



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