

STN2222 NPN Silicon Transistor

В

TO-92

С

Ε

Ta=25°C

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Descriptions

- General purpose application
- Switching application

Features

- Large collector current
- Low collector saturation voltage
- Complementary pair with STN2907

Ordering Information

Type NO.	Marking	Package Code		
STN2222	STN2222	TO-92		

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit		
Collector-Base voltage	V _{CBO}	60	V		
Collector-Emitter voltage	V _{CEO}	30	V		
Emitter-base voltage	V _{EBO}	5	V		
Collector current	Ι _C	600	mA		
Collector dissipation	P _C	625	mW		
Junction temperature	Tj	150	°C		
Storage temperature range	T _{stg}	-55~150	°C		

Electrical Characteristics

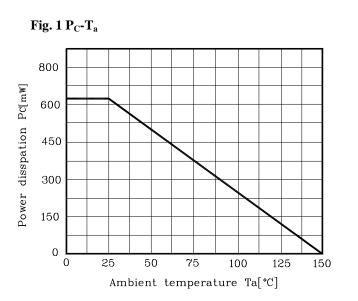
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Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Collector-Base breakdown voltage	BV_{CBO}	$I_{C} = 10 \mu A$, $I_{E} = 0$	60	-	-	V	
Collector-Emitter breakdown voltage	BV_{CEO}	$I_{C}=10mA$, $I_{B}=0$	30	-	-	V	
Emitter-Base breakdown voltage	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	
Transistor 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	

PIN Connection

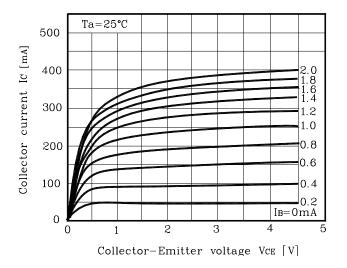
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STN2222

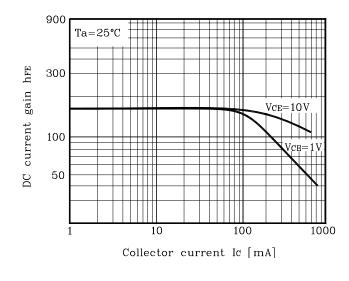
Electrical Characteristic Curves



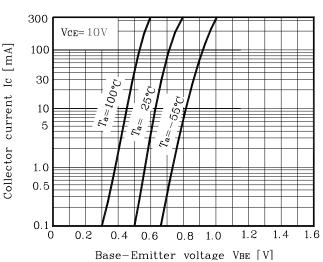


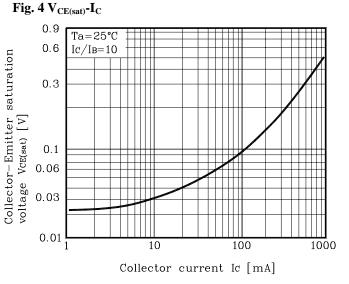




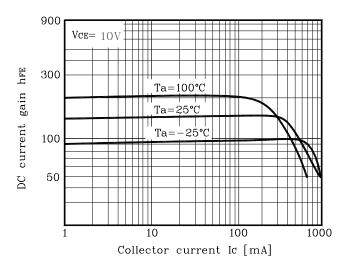




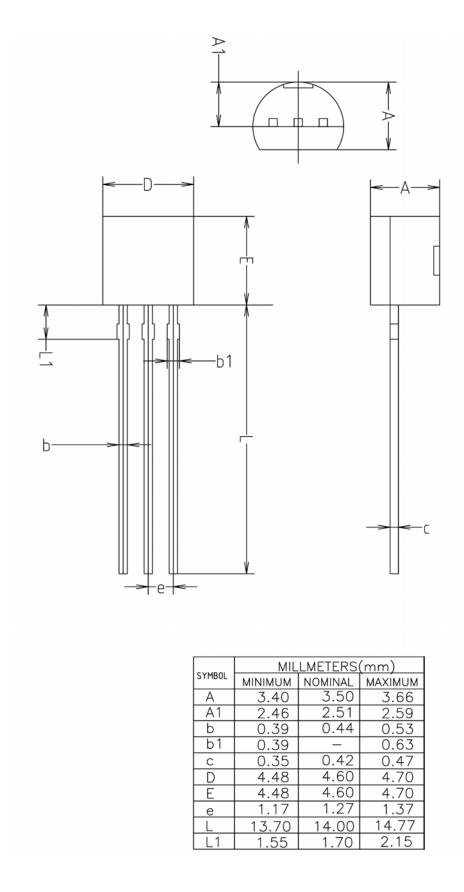








Outline Dimension



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