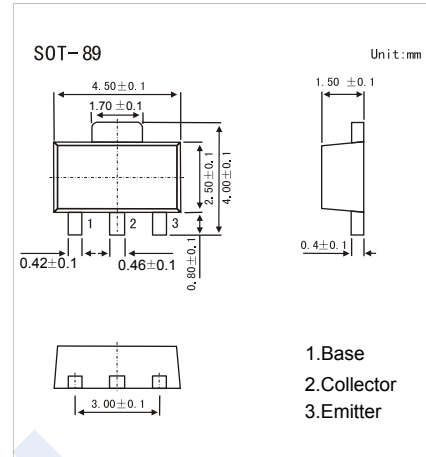


## NPN Transistors

## BF620 (KF620)

## ■ Features

- Low current (max. 50mA)
- High voltage (max. 300V).
- Video output stages.

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	300	V
Collector - Emitter Voltage	$V_{CE0}$	300	
Emitter - Base Voltage	$V_{EB0}$	5	
Collector Current - Continuous	$I_C$	50	mA
Collector Power Dissipation	$P_C$	500	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to 150	

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_C = 100 \mu\text{A}$ , $I_E = 0$	300			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = 1 \text{ mA}$ , $I_B = 0$	300			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = 100 \mu\text{A}$ , $I_C = 0$	5			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = 200 \text{ V}$ , $I_E = 0$			100	nA
Emitter cut-off current	$I_{EB0}$	$V_{EB} = 5 \text{ V}$ , $I_C = 0$			50	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 30 \text{ mA}$ , $I_B = 5 \text{ mA}$			0.6	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 30 \text{ mA}$ , $I_B = 5 \text{ mA}$			1.2	
DC current gain	$h_{FE}$	$V_{CE} = 20 \text{ V}$ , $I_C = 25 \text{ mA}$	50			
Transition frequency	$f_T$	$V_{CE} = 10 \text{ V}$ , $I_C = 10 \text{ mA}$ , $f = 100 \text{ MHz}$	60			MHz

## ■ Marking

Marking	DC
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