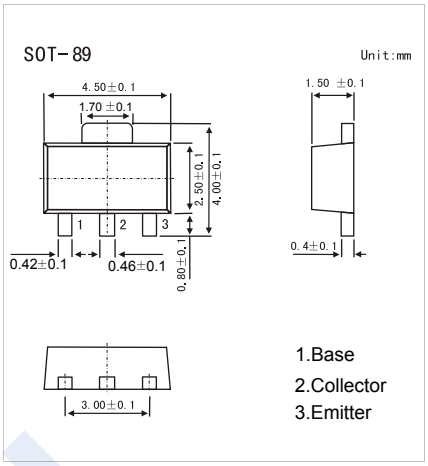
NPN Transistors

BF620 (KF620)



■ Features

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

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	300	V
Collector - Emitter Voltage	V_{CEO}	300	
Emitter - Base Voltage	V_{EBO}	5	
Collector Current - Continuous	I_C	50	mA
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25℃

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

■ Marking

Marking	DC