



TN6719A



NPN High Voltage Amplifier

This device is designed for use in high voltage applications . Sourced from Process 48. See MPSA42 for characteristics.

Absolute Maximum Ratings*

TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CEO}	Collector-Emitter Voltage	300	V
V _{CBO}	Collector-Base Voltage	300	V
V_{EBO}	Emitter-Base Voltage	7.0	V
Ic	Collector Current - Continuous	200	mA
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-55 to +150	°C

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

1) These ratings are based on a maximum junction temperature of 150 degrees C.

2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics

TA = 25°C unless otherwise noted

Symbol	Characteristic	Max	Units	
		TN6719A		
P_D	Total Device Dissipation Derate above 25°C	1.0 8.0	W mW/°C	
$R_{\theta JC}$	Thermal Resistance, Junction to Case	125	°C/W	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	50	°C/W	

NPN High Voltage Amplifier (continued)

Electrical Characteristics TA = 25°C unless otherwise noted							
Symbol	Parameter	Test Conditions	Min	Max	Units		
OFF CHA	ARACTERISTICS						
	Collector-Emitter Breakdown Voltage*	$I_{\rm C} = 1.0 \text{mA}, I_{\rm B} = 0$	300		V		
V _{(BR)CEO}		, , <u>,</u>			V		
V _{(BR)CBO}	Collector-Base Breakdown Voltage	$I_C = 100 \mu\text{A}, I_E = 0$	300		·		
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = 1.0 \text{ mA}, I_C = 0$	7.0		V		
I _{CBO}	Collector Cutoff Current	$V_{CB} = 200 \text{ V}, I_{E} = 0$		100	nA		
I _{EBO}	Emitter Cutoff Current	$V_{EB} = 6.0 \text{ V}, I_{C} = 0$		100	nA		
h _{FE}	RACTERISTICS* DC Current Gain	$V_{CE} = 10 \text{ V}, I_{C} = 1.0 \text{ mA}$ $V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$ $V_{CE} = 10 \text{ V}, I_{C} = 30 \text{ mA}$	25 40 40	200			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	$I_{\rm C} = 30 \text{ mA}, I_{\rm B} = 3.0 \text{ mA}$		0.75	V		
$V_{\text{BE}(on)}$	Base-Emitter On Voltage	$V_{CE} = 10 \text{ V}, I_{C} = 30 \text{ mA}$		0.85	V		
014411	NONAL CHARACTERICTICS						
SMALLS	SIGNAL CHARACTERISTICS						
C _{cb}	Collector-Base Capacitance	V _{CB} = 20 V, f = 1.0 MHz		3.5	pF		

^{*}Pulse Test: Pulse Width $\leq 300~\mu\text{s},~\text{Duty Cycle} \leq 2.0\%$

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by ON Semiconductor manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MJ15024/WS MJ15025/WS BC546/116 BC556/FSC BC557/116 BSW67A HN7G01FU-A(T5L,F,T NJVMJD148T4G NSVMMBT6520LT1G NTE187A NTE195A NTE2302 NTE2302 NTE2330 NTE2353 NTE316 IMX9T110 NTE63 NTE65 C4460 SBC846BLT3G 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA1727TLP 2SA2126-E 2SB1202T-TL-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMC5AT148 2N2369ADCSM 2SB1202S-TL-E 2SC2412KT146S 2SC4618TLN 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E BC557B TTC012(Q) BULD128DT4 JANTX2N3810 Jantx2N5416 US6T6TR KSF350 068071B