

BF469 BF471 NPN
 BF470 BF472 PNP

**COMPLEMENTARY
 HIGH VOLTAGE
 POWER TRANSISTORS**



TO-126 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BF469 series devices are silicon, complementary high voltage power transistors designed for Class-B video output stages in television receivers and for high voltage IF output stages.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	BF469 BF470	BF471 BF472	UNITS
Collector-Base Voltage	V_{CBO}	250	300	V
Collector-Emitter Voltage	V_{CEO}	250	300	V
Emitter-Base Voltage	V_{EBO}		5.0	V
Continuous Collector Current	I_C		50	mA
Peak Collector Current	I_{CM}		100	mA
Peak Base Current	I_{BM}		50	mA
Power Dissipation	P_D		1.25	W
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JA}		100	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_J=25^\circ\text{C}$ unless otherwise noted)

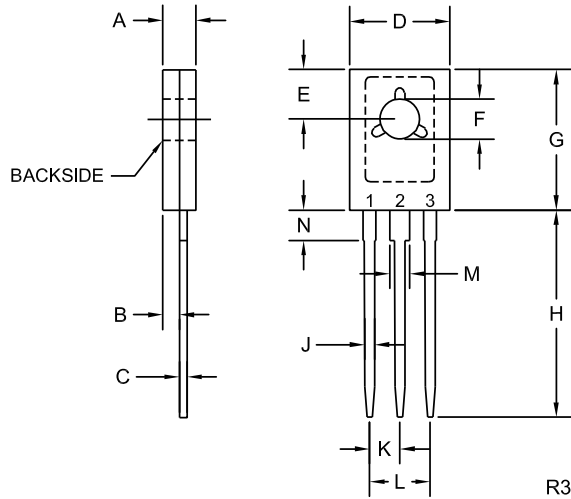
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=200\text{V}$		10	nA
I_{CBO}	$V_{CB}=200\text{V}, T_J=150^\circ\text{C}$		10	μA
I_{EBO}	$V_{EB}=5.0\text{V}$		50	nA
BV_{CBO}	$I_C=100\mu\text{A}$ (BF469, BF470)	250		V
BV_{CBO}	$I_C=100\mu\text{A}$ (BF471, BF472)	300		V
BV_{CEO}	$I_C=10\text{mA}$ (BF469, BF470)	250		V
BV_{CEO}	$I_C=10\text{mA}$ (BF471, BF472)	300		V
$V_{CE(SAT)}$	$I_C=30\text{mA}, I_B=5.0\text{mA}$		0.6	V
h_{FE}	$V_{CE}=20\text{V}, I_C=25\text{mA}$	50		
f_T	$V_{CE}=10\text{V}, I_C=10\text{mA}, f=100\text{MHz}$	60		MHz

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TO-126 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.094	0.110	2.40	2.80
B	0.050		1.27	
C	0.015	0.030	0.38	0.75
D	0.291	0.335	7.40	8.50
E	0.148		3.75	
F	0.118	0.134	3.00	3.40
G	0.413	0.472	10.50	12.00
H	0.618		15.70	
J	0.024	0.035	0.62	0.90
K	0.089		2.25	
L	0.177		4.50	
M	0.045	0.055	1.14	1.40
N	0.083		2.10	

TO-126 (REV:R3)

LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

MARKING:

FULL PART NUMBER

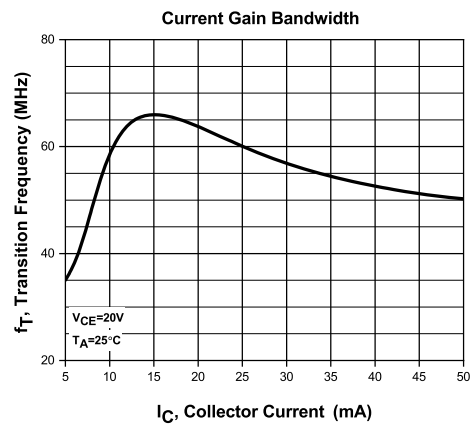
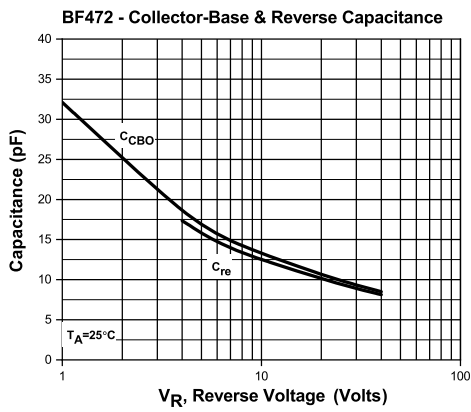
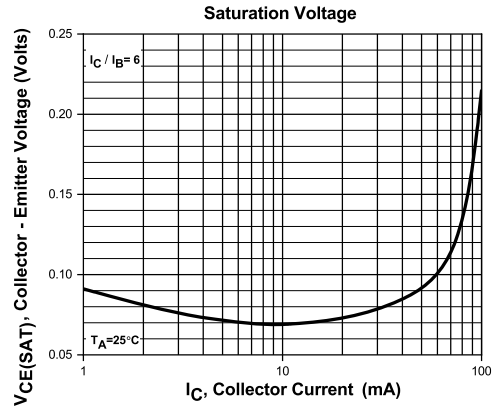
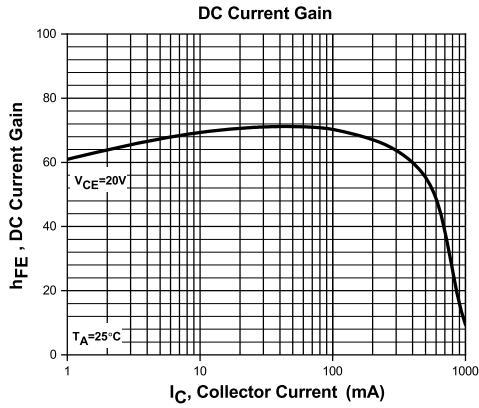
R1 (7-May 2019)

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TYPICAL ELECTRICAL CHARACTERISTICS



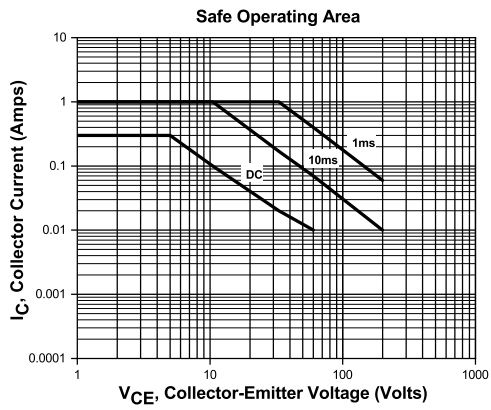
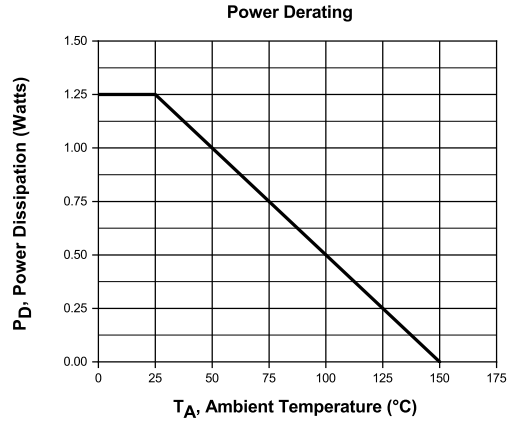
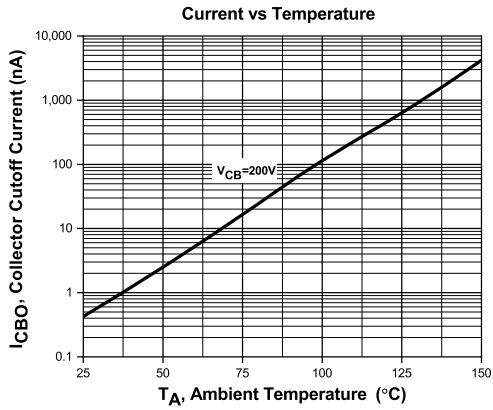
R1 (7-May 2019)

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TYPICAL ELECTRICAL CHARACTERISTICS



R1 (7-May 2019)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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